Location Date/Time Deaths & Property & Event Type and Details
Injuries Crop Dmg

WISCONSIN, Southeast

(WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z058) DODGE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z066) MILWAUKEE, (WI-Z068) GREEN, (WI-Z070) WALWORTH, (WI-Z072) KENOSHA

01/01/11 08:00 CST 38K

01/01/11 14:00 CST 0

Deep low pressure of 993 mb crossed Lake Superior into southeast Ontario, taking a cold front across southern Wisconsin. A combination of a tight pressure gradient around the low, with 3-hourly pressure rises of 2 to 3 mb, and clearing skies behind the front during the day, allowed for deep boundary layer mixing. This mixing tapped 30-40 knot (35 to 46 mph) winds just off the surface, which produced strong and gusty southwest winds. Sustained wind speeds reached 30 to 35 mph, with gusts between 35 and 45 mph during the morning and into the early afternoon hours. Scattered power outages were noted in newspapers due to wind-broken tree branches impacting power lines.

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

01/17/11 06:00 CST 0 Winter Weather

01/17/11 23:00 CST 0

Low pressure, driven by a vorticity maximum that moved across central and southern sections of Wisconsin, tracked across northern Illinois. Snow began falling early in the morning of the 17th with warm air advection ahead of the system, and continued through the day as the system moved through. Snow totals of 3 to 6 inches were widespread across South Central and Southeast Wisconsin, with a few locations receiving more than 6 inches of snow over the nearly 18-hour event. Winds of 10 to 20 mph, with gusts to 30 mph, reduced visibilities with blowing and drifting snow. Numerous accidents were reported across southern Wisconsin. A semi-trailer truck slid off the Interstate 90-94 bridge over Mirror Lake, killing (indirectly-related) the driver and critically injuring (indirectly-related) a passenger. The accident closed westbound lanes of the interstate for a time, with traffic reduced to one lane for days afterward until authorities could examine damage to the bridge and deem it safe for regular traffic flow.

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

01/21/11 00:00 CST 0

01/21/11 10:00 CST 0

An arctic air mass spread over southern Wisconsin in the wake of a cold front. Low temperatures dropped into the teens below zero to near 20 below zero away from Lake Michigan, with single digits below zero along the lake. The cold temperatures combined with northwest winds of 10 to 15 mph to produce wind chill values between 20 below and 30 below zero.

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Strong Wind (MAX 43 kt)

Location Date/Time Deaths & Property & Event Type and Details
Injuries Crop Dmg

WISCONSIN, Southeast

(WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK

02/01/11 17:00 CST 0 Blizzard

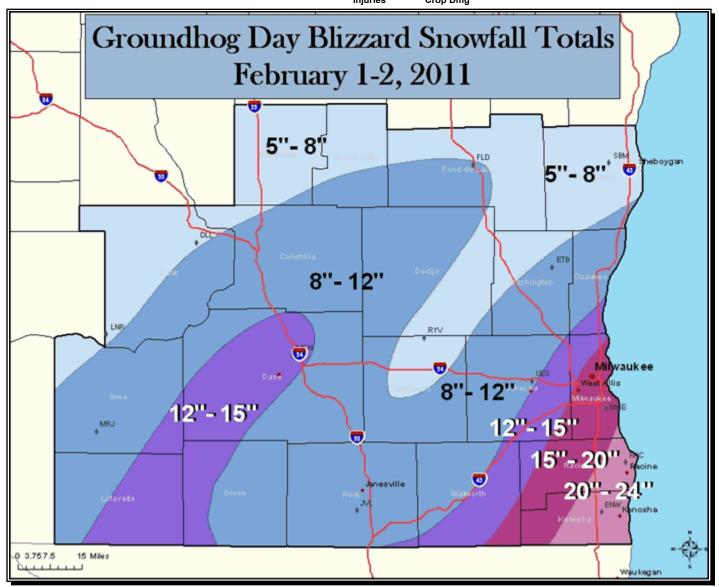
0

02/02/11 05:00 CST

A powerful low pressure center, passing south of Wisconsin, produced blizzard conditions across much of southern Wisconsin from the evening hours of Tuesday, February 1st into the early morning of Wednesday, February 2nd. Snow associated with the system began in the mid-afternoon hours of February 1st in far southern Wisconsin and became heavy as it pushed northward into the state through the evening. Very strong winds were associated with this storm for an extended period of time. Sustained winds of 30 to 40 mph were common through the event, with peak wind gusts between 45 and 55 mph. The combination of high winds and heavy snow created whiteout conditions with visibilities falling to near zero. Twenty-four hour snowfall totals were between 14 and 15 inches. In addition to the blizzard, several inches of snow fell on Jan 31. It's possible that some locations did not see a break in snowfall between the evening of January 31st and the morning of February 2nd. Many cooperative observer stations set records for multi-day snowfall totals. Beloit tied a record with a one-day (2/1) snowfall of 15 inches, is tied for second place with two-day (1/31-2/1) total of 17.0 inches and tied for fifth with a three-day (1/31-2/2) snowfall of 17.0 inches. Snow drifts of 3 to 8 feet were common, with reports of some drifts reaching 12 to 15 feet in open rural areas. Many area school districts dismissed classes early on February 1st, and remained closed on the 2nd and 3rd. A Civil Danger Warning was issued by Wisconsin Emergency Management concerning the dangerous driving conditions. Interstate 43 from Beloit to Mukwonago was closed, as well as portions of Interstate 90, with many stranded motorists having to be rescued from vehicles buried in the drifting snow. About 100 National Guardsman were mobilized statewide in response to Gov. Scott Walker's emergency declaration for 29 counties to help rescue motorists and run emergency shelters at armories. Rock County sheriff deputies had to abandoned their squad cars and jump into National Guard Humvees and Army trucks, which also got stuck in the deep drifts. Wisconsin DNR snowmobiles also became stuck in the deep snow. A 66-year old Janesville man was hospitalized for hypothermia after he fell and was subsequently buried by snow from a snow plow before being found by a neighbor a dug out of the snow bank 4 hours later. The blizzard conditions prevented firefighters from reaching a house fire in Gratiot (Lafayette County) until conditions improved enough for a plow to clear the road. The house was a total loss. Alliant energy reported 7,263 customers in the Milton-Edgerton area were without power at the height of the storm.

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MKX CWA 24-Hour Snowfall Totals from 12AM February 1st to 12 AM February 2nd

(WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

02/01/11 17:00 CST 1

02/02/11 07:00 CST

20K

Direct Fatalities: F52OU

A powerful low pressure center, passing south of Wisconsin, produced blizzard conditions across much of southern Wisconsin from the evening hours of Tuesday, February 1st into the early morning of Wednesday, February 2nd. Snow associated with the system began in the mid-afternoon hours of February 1st in far southern Wisconsin and became heavy as it pushed northward into the state through the evening. Very strong winds were associated with this storm for an extended period of time. Sustained northeast winds of 30 to 40 mph were common through the event, with peak wind gusts between 45 and 65 mph, with the stronger wind gusts near Lake Michigan. The lakeshore observation site at Kenosha reported a 64 mph wind gust at 120 am CST on February 2nd. The canopy over gas pumps at a gas station in the City of Kenosha was damaged by the high winds. The combination of high winds and heavy snow created widespread sustained visibilities of less than 1/4 mile, with frequent whiteout conditions and near zero visibilities. Twenty-four hour snowfall totals were between 20 and 26 inches, with 26 inches of snow measured in Pell Lake, and 24 inches recorded at both the Racine Wastewater Treatment Plant, a one-day record, and by a cooperative observer 4 miles southwest of the city of Kenosha. In addition to the snow that fell during the blizzard, several inches of snow fell on Jan 31, with light lake effect snow through the day on Feb 1st. It's possible that some locations did not see a break in snowfall between the evening of January 31st and the morning of

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Blizzard

Location Date/Time Deaths & Property & Event Type and Details

Injuries Crop Dmg

February 2nd. Racine set new two-day (1/31-2/1) and three-day (1/31-2/2) record snowfalls with 26 inches for each period, and Kenosha also set new two-day (1/31-2/1) and three-day (1/31-2/2) record snowfalls with 25.3 inches and 27.3 inches respectively. Snow drifts of 4 to 12 feet were common, with reports of some drifts reaching up to 15 feet in open rural areas. A Civil Danger Warning was issued by Wisconsin Emergency Management concerning the dangerous driving conditions. Drifting snow closed Interstate 94 from the Illinois border north to Milwaukee and Interstate 43 from Beloit to Mukwonago with many stranded motorists having to be rescued from vehicles buried in the drifting snow. Several Kenosha County sheriff deputies had to be rescued from their squad cars on I-94 after being stranded for six and seven hours. About 100 National Guardsman were mobilized statewide in response to Gov. Scott Walker's emergency declaration for 29 counties to help rescue motorists and run emergency shelters at armories. The Racine Fire Department alone responded to 150 emergency calls related to the storm. Emergency rooms across Southeast Wisconsin reported dozens of heart attacks and injuries from snow blower accidents. A 52-year old Yorkville (Racine County) woman died from exposure after being dropped off by a tow truck driver at the foot of her driveway and became disoriented in the whiteout conditions. Her body was found 300 feet from her home. At the height of the storm, WE Energies reported 5,200 customers were without power across Southeast Wisconsin. An estimated \$1.4 million dollars was spent for snow removal in Racine County alone. Trucks dumped snow that had been cleared from area streets at Pershing Park, with snow piles reaching 60-70 feet high.

(WI-Z057) COLUMBIA, (WI-Z062) IOWA, (WI-Z063) DANE

02/01/11 19:00 CST 10K Blizzard

0

02/02/11 04:00 CST

A powerful low pressure center, passing south of Wisconsin, produced blizzard conditions across much of southern Wisconsin from the evening hours of Tuesday, February 1st into the early morning of Wednesday, February 2nd. Snow associated with the system began in the mid-afternoon hours of February 1st in far southern Wisconsin and became heavy as it pushed northward into the state through the evening. Very strong winds were associated with this storm for an extended period of time. Sustained winds of 30 to 40 mph were common through the event, with peak wind gusts between 45 and 50 mph. The combination of high winds and heavy snow created widespread sustained visibilities of less than 1/4 mile, with frequent whiteout conditions and near zero visibilities. Twenty-four hour snowfall totals were between 12 and 14 inches, with 14.5 inches of snow measured in Middleton, 12.7 inches recorded at Dane County Regional Airport, 12.2 inches in Portage and 12 inches in Mineral Point. In addition to the snow that fell during the blizzard, several inches of snow fell on Jan 31. It's possible that some locations did not see a break in snowfall between the evening of January 31st and the morning of February 2nd. Many cooperative observer stations set records for multi-day snowfall totals. Stoughton tied a record with a one-day (2/1) snowfall of 14 inches, and set new two-day (1/31-2/1) and three-day (1/31-2/2) record snowfalls with 19.1 inches for each period. Snow drifts of 3 to 6 feet were common, with reports of some drifts reaching 12 to 15 feet in open rural areas. Drifting snow closed county roads, with many stranded motorists having to be rescued from vehicles buried in the drifting snow. About 100 National Guardsman were mobilized statewide in response to Gov. Scott Walker's emergency declaration for 29 counties to help rescue motorists and run emergency shelters at armories. The blizzard led to early dismissals on February 1st at many area schools, and kept them closed through February 3rd. Snow drifted up to the roof of the Yahara Elementary School in De Forest (Dane County). The strong, gusty winds sheared off the sign at a Super 8 motel in Columbus in Columbia County.

(WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE

02/01/11 19:00 CST 34K Blizzard 02/02/11 07:00 CST 0

A powerful low pressure center, passing south of Wisconsin, produced blizzard conditions across much of southern Wisconsin from the evening hours of Tuesday, February 1st into the early morning of Wednesday, February 2nd. Snow associated with the system began in the mid-afternoon hours of February 1st in far southern Wisconsin and became heavy as it pushed northward into the state through the late afternoon and evening. Very strong winds were associated with this storm for an extended period of time. Sustained northeast winds of 30 to 40 mph were common through the event, with peak wind gusts between 45 and 55 mph, with the stronger wind gusts near Lake Michigan. The lakeshore observation site at Milwaukee reported a 54 mph wind gust at 7 pm CST on February 1st. The combination of high winds and heavy snow created widespread sustained visibilities of less than 1/4 mile, with frequent whiteout conditions and near zero visibilities. Twenty-four hour snowfall totals were between 12 and 22 inches, with 22 inches of snow measured in Hales Corners (Milwaukee County), 18 inches recorded 4 miles southwest of Muskego (Waukesha County) and 12.1 inches at the NWS office in Sullivan (Jefferson County). Snowfall totaled 16.1 inches at Mitchell International Airport, which tied for the 5th greatest 24-hour snowfall total in Milwaukee. Most flights in and out of the airport were canceled until later in the day on February 2nd. In addition to the snow that fell during the blizzard, several inches of snow fell on Jan 31, with light lake effect snow through the day on Feb 1st. It's possible that some locations did not see a break in snowfall between the evening of January 31st and the morning of February 2nd. Many cooperative observer stations set records for multi-day snowfall totals. Whitnall Park in Hales Corners (Milwaukee County) set a record with 28 inches of snow from January 31st through February 1st. Snow drifts of 3 to 12 feet were common, with reports of some drifts reaching 12 to 15 feet in open rural areas. A Civil Danger Warning was issued by Wisconsin Emergency Management concerning the dangerous driving conditions. Drifting snow closed Interstate 94 from the Illinois border north to Milwaukee, and Interstate 43 from Beloit to Mukwonago, with many stranded motorists having to be rescued from vehicles buried in the drifting snow. About 100 National Guardsman were mobilized statewide in response to Gov. Scott Walker's emergency declaration for 29

counties to help rescue motorists and run emergency shelters at armories. Most businesses, several restaurants and all of the Milwaukee-area shopping malls were closed for at least part of the day on February 2nd. The blizzard even caused the Milwaukee County Zoo to cancel the annual Groundhog Day festivities. Emergency rooms across Southeast Wisconsin reported dozens of heart attacks and injuries from snow blower accidents. Three Milwaukee area men, two with heart problems, died while shoveling snow.

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Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg

Milwaukee area law enforcement reported 24 vehicle accidents, with two injuries and 47 disabled vehicles. Jefferson County reported 1 indirectly-related injury due to a vehicle accident, with a total of 122 weather related calls. At the height of the storm, WE Energies reported 5,200 customers were without power across Southeast Wisconsin. An outdoor siren belonging to the city of Waukesha was blown down by the winds and had to be replaced. In the Port of Milwaukee, the wind gusts imploded at least 5 metal panals or siding and a roll-down door on a large storage pole shed.

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z056) SAUK

02/01/11 21:00 CST 0 Winter Storm

02/02/11 03:00 CST 0

A powerful low pressure center, passing south of Wisconsin, produced near blizzard conditions across portions of South Central Wisconsin from the evening hours of Tuesday, February 1st into the early morning of Wednesday, February 2nd. Snow associated with the system began in the mid-afternoon hours of February 1st in far southern Wisconsin and became heavy as it pushed northward into the state through the late afternoon and evening. Very strong winds were associated with this storm for an extended period of time. Sustained northeast winds of 25 to 30 mph were common through the event, with occasional gusts between 40 and 45 mph. The combination of gusty winds and heavy snow created widespread visibilities of a mile or less, with law enforcement reporting near-blizzard conditions at times. Twenty-four hour snowfall totals were between 4 and 8 inches, with 8 inches of snow measured by a cooperative observer 1 mile northeast of Baraboo (Sauk County); 5 inches at Markesan (Green Lake County) and 4.9 inches in Montello (Marquette County). In addition to the snow that fell during the blizzard, several inches of snow fell on Jan 31. It's possible that some locations did not see a break in snowfall between the evening of January 31st and the morning of February 2nd. Snow drifts of 1 to 3 feet

(WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE

02/01/11 21:30 CST 0 Blizzard

02/02/11 06:00 CST 0

A powerful low pressure center, passing south of Wisconsin, produced blizzard conditions across much of southern Wisconsin from the evening hours of Tuesday, February 1st into the early morning of Wednesday, February 2nd. Snow associated with the system began in the mid-afternoon hours of February 1st in far southern Wisconsin and became heavy as it pushed northward into the state through the late afternoon and evening. Very strong winds were associated with this storm for an extended period of time. Sustained northeast winds of 30 to 40 mph were common through the event, with peak wind gusts between 45 and 55 mph, with the stronger wind gusts near Lake Michigan. The lakeshore observation site at Sheboygan reported a 55 mph wind gust at 6 pm CST on February 1st. The combination of high winds and heavy snow created widespread sustained visibilities of less than 1/4 mile, with frequent whiteout conditions and near zero visibilities. Twenty-four hour snowfall totals were between 8 and 16 inches, with 16 inches of snow measured by a cooperative observer 1 mile southwest of West Bend (Washington County); 11.5 inches near Beaver Dam in the town of Westfield (Dodge County); 9.5 inches just southwest of the city of Sheboygan; 8.5 inches in Grafton (Ozaukee County); and 8 inches 2 miles southwest of Fond Du Lac. In addition to the snow that fell during the blizzard, several inches of snow fell on Jan 31, with light lake effect snow through the day on Feb 1st. It's possible that some locations did not see a break in snowfall between the evening of January 31st and the morning of February 2nd. Snow drifts of 3 to 10 feet were common, with reports of some drifts reaching 12 to 15 feet in open rural areas. Drifting snow closed county highways and roads with many stranded motorists having to be rescued from vehicles buried in the drifting snow. About 100 National Guardsman were mobilized statewide in response to Gov. Scott Walker's emergency declaration for 29 counties to help rescue motorists and run emergency shelters at armories. Dodge County law enforcement reported 174 vehicles were stuck in snow or had skidded off area roads. A Randolph (Dodge County) man injured his hand in a snow blower incident. At the height of the storm, WE Energies reported 5,200 customers were without power across Southeast Wisconsin.

(WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE

02/06/11 06:00 CST 0 Winter Weather

02/06/11 14:00 CST 0

Forcing from an upper level disturbance produced a band of moderate snow over parts of South Central and Southeast Wisconsin and left behind accumulations of 3 to 5.5 inches within a 7 to 8 hour period. The core of the band extended from the Monroe area in Green County, northeast to the City of Milwaukee. Media outlets reports dozens of vehicle accidents. Maximum snow accumulations included 5.5 inches at Palmyra 1.2 SW (Jefferson Co.), 5.0 inches at Orfordville (Rock Co.) and Mukwonago (Waukesha Co.), 4.5 inches in East Troy (Walworth Co.), 4.0 inches in Brodhead (Green Co.), and 3.7 inches at both Milwaukee Mitchell Field (Milwaukee Co.) and Waterford (Racine Co.).

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z068) GREEN, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

02/18/11 13:00 CST 30K Strong Wind (MAX 39 kt)

02/18/11 18:00 CST 0

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Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg

A tight pressure gradient around strong low pressure over James Bay, 3-hourly pressure rises of 2 to 4 mb, and daytime mixing up to 925 mb winds of 35 to 45 knots produced strong gusty winds that affected parts of South Central and Southeast Wisconsin with sustained winds of 26 to 29 knots (30 - 33 mph) and gusts to 39 knots (45 mph). Scattered power-outages were noted by the media as old tree branches fell onto power lines. The responsible low pressure moved east across the northern part of Lake Superior which allowed strong west winds to affect parts of Wisconsin.

(WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE

02/20/11 08:00 CST 0 Winter Storm

02/20/11 11:30 CST 0

Surface low pressure tracked from eastern lowa to just south of Chicago producing a winter storm with a mixed-bag of precipitation types and wind gusts of 22 to 33 knots (25 to 34 mph) that affected South Central and Southeast Wisconsin from February 20th into early February 21st. Visibilities were reduced to around 1/2 mile. Only those counties bordering Illinois escaped the storm. The counties of lowa, Dane, Jefferson, Waukesha, and Milwaukee picked up about 1/4 inch of ice due to freezing rain, and followed this with 1/2 to 1 inch of sleet and then light snow of 1/2 to 1.5 inches. Maximum sleet and snow accumulations were 2 inches in Mazomanie (Dane Co.), 3.0 inches in Watertown (Jefferson Co.), 5.4 inches in Merton (Waukesha Co.), and 7.2 inches in Brown Deer (Milwaukee Co.). The precipitation north of these counties was mostly snow.

(WI-Z056) SAUK, (WI-Z057) COLUMBIA

02/20/11 08:00 CST 0 Winter Storm

02/20/11 23:30 CST 0

Surface low pressure tracked from eastern lowa to just south of Chicago producing a winter storm with a mixed-bag of precipitation types and wind gusts of 22 to 33 knots (25 to 34 mph) that affected South Central and Southeast Wisconsin from February 20th into early February 21st. Visibilities were reduced to around 1/2 mile. Only those counties bordering Illinois escaped the storm. The counties of Sauk and Columbia picked up 1/2 to 1 inch of sleet followed by several inches of snow. Maximum snow and sleet accumulations were 3 to around 7 inches, with the lower amounts in the southern portions of these counties. The greatest totals were 7.3 inches in Portage (Columbia Co.) and 7 inches in La Valle (Sauk Co.). The precipitation north of these counties was mostly snow while south of these counties most of the precipitation was freezing rain and sleet.

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE

Surface low pressure tracked from eastern lowa to just south of Chicago producing a winter storm with a mixed-bag of precipitation types and wind gusts of 22 to 33 knots (25 to 34 mph) that affected South Central and Southeast Wisconsin from February 20th into early February 21st. Visibilities were reduced to around 1/2 mile. Only those counties bordering Illinois escaped the storm. The counties of Marquette, Green Lake, Fond du Lac, Sheboygan, Dodge, Washington, and Ozaukee had mostly snow, but did get a touch of sleet.

Maximum snow accumulations ranged from 6 inches to 13 inches. Specifically, maximum accumulations in each county include 10

Maximum snow accumulations ranged from 6 inches to 13 inches. Specifically, maximum accumulations in each county include 10 inches across extreme northern Marquette and Green Lake counties, 9 inches just east of the city of Fond du Lac in St. Peters, 14 inches in Ootsburg (Sheboygan Co.), 7.5 inches in the Beaver Dam area, 10.2 inches in Jackson (Washington Co.), and 12 inches in Belgium (Ozaukee Co.). The precipitation south of these counties consisted of more freezing rain and sleet with much lesser amounts of snow.

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

02/21/11 15:00 CST 0 Winter Weather

02/22/11 06:00 CST 0

A long-duration snow affected all of South Central and Southeast Wisconsin from the afternoon hours of February 21st to almost daybreak February 22nd. Just prior to the snow, light freezing drizzle glazed untreated roads and other surfaces. There was some lake-enhancement of the snow in those areas near Lake Michigan. The media noted dozens of vehicle accidents. Maximum snow accumulations include 2.5 inches in Marquette Co., 3.5 inches in Green Lake Co., 4.5 inches in Fond du Lac and Sheboygan counties, around 2 inches in Sauk Co., 3 inches in Columbia Co., 4 inches in Dodge Co., 5.9 inches in Washington Co., 7.5 inches in Ozaukee Co., about 2 inches in Iowa Co., 2.5 inches in Dane Co., 3.4 inches in Jefferson Co., 6.4 inches in Waukesha Co., 6 inches in Milwaukee Co., 1.5 inches in Lafayette Co., 2 inches in Green Co., 3 inches in Rock Co., 2.5 inches in Walworth Co., 4 inches in Racine Co., and 3 inches in Kenosha Co. The snow and freezing rain was related to forcing with an upper-level low pressure which moved from Minnesota southeast across southern Wisconsin along with convergence along an inverted surface trough that extended across southern Wisconsin.

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Location Date/Time Deaths & Property & Event Type and Details
Injuries Crop Dmg

WISCONSIN, Southeast

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE

03/09/11 00:00 CST 0 Winter Weather

03/09/11 14:00 CST 0

Surface low pressure developed rapidly ahead of a strong short wave trough and moved south of Wisconsin from west central Illinois to just south of Chicago. A shield of precipitation spread over southern Wisconsin the night of March 8th with forcing from warm air advection ahead of the low, and continued through the morning of the 9th as the low crossed northern Illinois. The thermal structure associated with the storm was such that the rain/snow line bisected the Milwaukee/Sullivan County Warning Area. Locations along and northwest of a Fond Du Lac to Madison line saw snowfall accumulations of 3 to 5 inches, with isolated spots seeing more than 5 inches. To the east of this line, 2 to 4 inches of snow was common. The tier of counties right along the Illinois border only received 1 to 2 inches of snow, as most of the precipitation fell as rain.

DODGE COUNTY --- 1.0 SE WAUPUN [43.62, -88.72]

03/20/11 18:48 CST 0 Hail (1.00 in)

03/20/11 18:48 CST 0 Source: Trained Spotter

Large scale forcing for ascent was provided by a vigorous mid-level short wave trough that moved from the northern Plains across northern Wisconsin during the evening of March 20th. A strong southerly low-level flow over an approaching surface warm front produced elevated thunderstorms over southern Wisconsin.

DANE COUNTY --- 1.6 SSW MONONA [43.05, -89.34], 1.7 E BLOOMING GROVE [43.05, -89.34]

High pressure brought light gradient winds with good diurnal heating conditions producing steep low level lapse rates. A local temperature variation between land and nearby Lake Monona created a localized shear zone that led to the formation of a dust devil near Monona...southeast of the city of Madison. The dust devil developed over the Yahara River, traveled south, and came ashore where it picked up a plastic storage shed located near the Four Lake Yacht Club and blew off the roof of the shed.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAKE MICHIGAN				
DT WASHINGTON TO NODTH DT L	T WI COUNTY 0.6 N PORT WASHINGTO	N [42 20 97 97]		
FI WASHINGTON TO NORTH FI LI	04/10/11 21:44 CST	N [43.33, -07.07]	0	Marine Thunderstorm Wind (MG 36 kt)
	04/10/11 21:50 CST		0	Source: C-MAN Station
Severe thunderstorm wind gusts last	ed 6 minutes.			
NORTH PT LT TO WIND PT WI COU	NTY 3.5 SE NORTH POINT LTHOUSE [4	13.05, -87.88]		
	04/10/11 21:45 CST		0	Marine Thunderstorm Wind (MG 40 kt)
	04/10/11 21:45 CST		0	Source: C-MAN Station
 WIND PT LT WI TO WINTHROP HBF	R IL COUNTY 1.2 ENE KENOSHA [42.59	, -87.81]		
	04/10/11 22:20 CST		0	Marine Thunderstorm Wind (MG 36 kt)
	04/10/11 22:30 CST		0	Source: C-MAN Station
Severe thunderstorm wind gusts last	ed 10 minutes.			
Line of severe thunderstorms produ	uced brief wind gusts exceeding 33 knots	in the late eveni	ng.	
WISCONSIN, Southeast				
DODGE COUNTY 1.0 SE BEAVER	R DAM [43.46, -88.82]			
DODGE COUNTY 1.0 SE BEAVER	R DAM [43.46, -88.82] 04/03/11 10:35 CST		12K	Hail (0.75 in)
DODGE COUNTY 1.0 SE BEAVER			12K 0	Hail (0.75 in) Source: Newspaper
A shower of 3/4 inch hail produced ic	04/03/11 10:35 CST		0	Source: Newspaper
A shower of 3/4 inch hail produced ic	04/03/11 10:35 CST 04/03/11 10:40 CST by roads that caused a two-vehicle accident cilled, and the male drivers of the two vehicle MONT [42.73, -90.32]		0 y 151 north of Sta	Source: Newspaper ate Highway 33, north of Beaver Dam. A
A shower of 3/4 inch hail produced ic 26-year-old Green Bay woman was k	04/03/11 10:35 CST 04/03/11 10:40 CST by roads that caused a two-vehicle accident cilled, and the male drivers of the two vehicle MONT [42.73, -90.32] 04/03/11 19:55 CST		0 y 151 north of Sta 0	Source: Newspaper ate Highway 33, north of Beaver Dam. A Hail (1.75 in)
A shower of 3/4 inch hail produced ic 26-year-old Green Bay woman was k	04/03/11 10:35 CST 04/03/11 10:40 CST by roads that caused a two-vehicle accident cilled, and the male drivers of the two vehicle MONT [42.73, -90.32]		0 y 151 north of Sta	Source: Newspaper ate Highway 33, north of Beaver Dam. A
A shower of 3/4 inch hail produced ic 26-year-old Green Bay woman was k	04/03/11 10:35 CST 04/03/11 10:40 CST by roads that caused a two-vehicle accident stilled, and the male drivers of the two vehicle MONT [42.73, -90.32] 04/03/11 19:55 CST 04/03/11 19:55 CST		0 y 151 north of Sta 0	Source: Newspaper ate Highway 33, north of Beaver Dam. A Hail (1.75 in)
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A shower of 3/4 inch hail produced ic 26-year-old Green Bay woman was k LAFAYETTE COUNTY 0.5 E BELI LAFAYETTE COUNTY 0.5 NW DA	04/03/11 10:35 CST 04/03/11 10:40 CST by roads that caused a two-vehicle accident dilled, and the male drivers of the two vehicle accident 19:55 CST 04/03/11 19:55 CST 04/03/11 19:55 CST 04/03/11 19:55 CST	es were injured.	0 y 151 north of Sta 0 0	Source: Newspaper ate Highway 33, north of Beaver Dam. A Hail (1.75 in) Source: Trained Spotter Hail (1.75 in)
A shower of 3/4 inch hail produced ic 26-year-old Green Bay woman was k LAFAYETTE COUNTY 0.5 E BELI LAFAYETTE COUNTY 0.5 NW DA	04/03/11 10:35 CST 04/03/11 10:40 CST by roads that caused a two-vehicle accident dilled, and the male drivers of the two vehicle accident accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident d	es were injured.	0 y 151 north of Sta 0 0	Source: Newspaper ate Highway 33, north of Beaver Dam. A Hail (1.75 in) Source: Trained Spotter Hail (1.75 in)
A shower of 3/4 inch hail produced ic 26-year-old Green Bay woman was k LAFAYETTE COUNTY 0.5 E BELI LAFAYETTE COUNTY 0.5 NW DA	04/03/11 10:35 CST 04/03/11 10:40 CST by roads that caused a two-vehicle accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and	es were injured.	0 y 151 north of Sta 0 0 0	Source: Newspaper ate Highway 33, north of Beaver Dam. A Hail (1.75 in) Source: Trained Spotter Hail (1.75 in) Source: Law Enforcement
A shower of 3/4 inch hail produced ic 26-year-old Green Bay woman was k LAFAYETTE COUNTY 0.5 E BELI LAFAYETTE COUNTY 0.5 NW DA DANE COUNTY MT HOREB [43.0	04/03/11 10:35 CST 04/03/11 10:40 CST by roads that caused a two-vehicle accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the two ve	es were injured.	0 y 151 north of Sta 0 0 0	Source: Newspaper ate Highway 33, north of Beaver Dam. A Hail (1.75 in) Source: Trained Spotter Hail (1.75 in) Source: Law Enforcement Hail (1.75 in)
A shower of 3/4 inch hail produced ic 26-year-old Green Bay woman was k LAFAYETTE COUNTY 0.5 E BELI LAFAYETTE COUNTY 0.5 NW DA	04/03/11 10:35 CST 04/03/11 10:40 CST by roads that caused a two-vehicle accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the two ve	es were injured.	0 y 151 north of Sta 0 0 0	Source: Newspaper ate Highway 33, north of Beaver Dam. A Hail (1.75 in) Source: Trained Spotter Hail (1.75 in) Source: Law Enforcement Hail (1.75 in)
A shower of 3/4 inch hail produced ic 26-year-old Green Bay woman was k LAFAYETTE COUNTY 0.5 E BELI LAFAYETTE COUNTY 0.5 NW DA	04/03/11 10:35 CST 04/03/11 10:40 CST by roads that caused a two-vehicle accident dilled, and the male drivers of the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the two vehicles accident dilled, and the male drivers of the two vehicles accident dilled, and the two ve	es were injured.	0 y 151 north of Sta	Source: Newspaper ate Highway 33, north of Beaver Dam. A Hail (1.75 in) Source: Trained Spotter Hail (1.75 in) Source: Law Enforcement Hail (1.75 in) Source: Amateur Radio
A shower of 3/4 inch hail produced ic 26-year-old Green Bay woman was k LAFAYETTE COUNTY 0.5 E BELI LAFAYETTE COUNTY 0.5 NW DA DANE COUNTY MT HOREB [43.0]	04/03/11 10:35 CST 04/03/11 10:40 CST By roads that caused a two-vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the two vehicles accident dilled, an	es were injured.	0 y 151 north of Sta	Source: Newspaper ate Highway 33, north of Beaver Dam. A Hail (1.75 in) Source: Trained Spotter Hail (1.75 in) Source: Law Enforcement Hail (1.75 in) Source: Amateur Radio
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A shower of 3/4 inch hail produced ic 26-year-old Green Bay woman was k LAFAYETTE COUNTY 0.5 E BELI LAFAYETTE COUNTY 0.5 NW DA DANE COUNTY MT HOREB [43.0]	04/03/11 10:35 CST 04/03/11 10:40 CST By roads that caused a two-vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the two vehicles accident dilled, and the two v	es were injured.	0 y 151 north of Sta 0 0 0 0 0 0	Source: Newspaper ate Highway 33, north of Beaver Dam. A Hail (1.75 in) Source: Trained Spotter Hail (1.75 in) Source: Law Enforcement Hail (1.75 in) Source: Amateur Radio Hail (2.00 in) Source: Amateur Radio
A shower of 3/4 inch hail produced ic 26-year-old Green Bay woman was keep the county 0.5 e belicated by the county 0.5 nw days and county MT HOREB [43.0] DANE COUNTY MIDDLETON [43.0] DANE COUNTY MIDDLETON [43.0]	04/03/11 10:35 CST 04/03/11 10:40 CST By roads that caused a two-vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the two vehicle accident dilled, an	es were injured.	0 y 151 north of Sta 0 0 0 0 0 0 0 0 0	Source: Newspaper ate Highway 33, north of Beaver Dam. A Hail (1.75 in) Source: Trained Spotter Hail (1.75 in) Source: Law Enforcement Hail (1.75 in) Source: Amateur Radio Hail (2.00 in) Source: Amateur Radio
A shower of 3/4 inch hail produced ic 26-year-old Green Bay woman was k LAFAYETTE COUNTY 0.5 E BELI LAFAYETTE COUNTY 0.5 NW DA DANE COUNTY MT HOREB [43.0]	04/03/11 10:35 CST 04/03/11 10:40 CST By roads that caused a two-vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the male drivers of the two vehicle accident dilled, and the two vehicle accident dilled, an	es were injured.	0 y 151 north of Sta 0 0 0 0 0 0 0 0 0	Source: Newspaper ate Highway 33, north of Beaver Dam. A Hail (1.75 in) Source: Trained Spotter Hail (1.75 in) Source: Law Enforcement Hail (1.75 in) Source: Amateur Radio Hail (2.00 in) Source: Amateur Radio

DANE COUNTY --- CAMP RANDALL STADIUM [43.07, -89.41]

04/03/11 20:38 CST

04/03/11 20:45 CST

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Source: Broadcast Media

Hail (1.75 in)

0

0

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DANE COUNTY 1.0 W MONONA [43.07, -8	39.34]			
	04/03/11 20:39 CST		0	Hail (2.00 in)
	04/03/11 20:39 CST		0	Source: Amateur Radio
DANE COUNTY CAMP RANDALL STADIL	JM [43.07, -89.41]			
	04/03/11 20:45 CST		0	Hail (1.75 in)
	04/03/11 20:45 CST		0	Source: Public
LAFAYETTE COUNTY GRATIOT [42.58, -	90.021			
• /	04/03/11 20:50 CST		0	Hail (1.75 in)
	04/03/11 20:50 CST		0	Source: Law Enforcement
DANE COUNTY MIDDLETON [43.10, -89.5	50]			
	04/03/11 20:51 CST		0	Hail (2.50 in)
	04/03/11 20:51 CST		0	Source: Public
DANE COUNTY DE FOREST [43.25, -89.3	3]			
	04/03/11 20:55 CST		0	Hail (1.75 in)
	04/03/11 20:55 CST		0	Source: Public
COLUMBIA COUNTY FALL RIVER [43.38,	-89.05]			
	04/03/11 21:15 CST		0	Hail (1.00 in)
	04/03/11 21:15 CST		0	Source: Public
JEFFERSON COUNTY 4.0 NNW LAKE MII	LLS [43.13, -88.93]			
	04/03/11 21:20 CST		0	Hail (0.88 in)
	04/03/11 21:20 CST		0	Source: Public
DODGE COUNTY 4.0 NNW WATERTOWN	[43.25, -88.75]			
	04/03/11 22:04 CST		0	Hail (1.00 in)
	04/03/11 22:04 CST		0	Source: Trained Spotter
DODGE COUNTY 4.0 NE IRON RIDGE [43	.44, -88.47], 3.8 ENE HERMAN C	ENTER [43.44, -88	3.40]	
	04/04/11 00:15 CST		0	Thunderstorm Wind (EG 70 kt)
	04/04/11 00:21 CST		0	Source: Trained Spotter
Trees were blown down, shingles were torn o Count damage swath continued into Washing the damage swatch was about 2 miles.		-		
WASHINGTON COUNTY 0.7 S NENNO [43		-88.18]		
	04/04/11 00:21 CST		0	Thunderstorm Wind (EG 70 kt)
	04/04/11 00:33 CST		0	Source: Trained Spotter

Trees were blown down and shingles were torn off roofs by thunderstorm winds estimated at 80 mph (70 knots). This Washington County damage swath actually started in Dodge County about 4 miles northeast of Iron Ridge. The entire damage swatch stretched for roughly 14 miles and had a width of about 2 miles.

Two rounds of thunderstorms affected southern Wisconsin on April 3rd, as low pressure moved northeast from lowa across Wisconsin. Morning elevated thunderstorms, with warm air advection on the nose of a low-level jet ahead of the approaching low, did not produce severe weather...but a shower of small hail created icy road conditions in Dodge County, where a two-vehicle accident killed a 26 year old female and injured two others. During the afternoon hours, a warm front lifted into southern Wisconsin as the low moved into the state...with mean layer CAPE increasing to 1000 to 1500 J/kg along with strong low layer shear and deep layer bulk shear. This triggered the second round of thunderstorms in the evening that were severe, producing mainly large hail up to the size of a baseballs, along with damaging winds. Madison-based American Family Insurance Company reported 375 property claims as well as 200 vehicle damage claims in Dane and Dodge counties alone. There were probably more damaged vehicles that weren't reported to insurance companies. Roof damage caused by the golf ball to baseball-sized hail was extensive in the western suburbs of Madison, with some homes and businesses requiring whole-roof replacements. It was not possible to break up the insurance company claims and assign monetary losses to individual storms. Total monetary losses were probably in the low millions of dollars.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
GREEN LAKE COUNTY 3.6 SSE BERL	IN [43.92, -88.91], 3.0 SE BERLIN [4	3.94, -88.89]		
	04/10/11 19:27 CST		0.30K	Tornado (EF0, L: 1.83 mi , W: 50 yd)
	04/10/11 19:29 CST		0	Source: NWS Storm Survey
An EF0 tornado developed about 3.5 miles northeast about 1.8 miles before dissipatin under a porch where it was being stored at the path of the tornado. There was \$300 dend locations was Lat 43.93922 Lon -88.88 average path width of the tornado was 30 to 1.5 miles.	g on Meadow Brook Road just east of and threw it against a fence. Tree brai billars of damage done to an outdoor 3818. The EF-rating was based on D	of County Trunk H nches were snapp spa. The exact st	lighway V. The torn ed and a wooden s art location was La	nadic winds sucked lawn furniture from structure received light damage along t 43.91978 Lon -88.91302. The exact
WAUKESHA COUNTY 2.0 SW MUSKE		0, -88.13]		
	04/10/11 21:28 CST		0	Thunderstorm Wind (EG 70 kt)
	04/10/11 21:30 CST		0	Source: Law Enforcement
A severe thunderstorm produced damaging along the path of the strong winds.	g wind gusts estimated up to 80 mph	n (70 knots). Trees	s were knocked dov	wn and tree branches were broken
MILWAUKEE COUNTY 2.0 W (MKE)MI			0	Thursdoorteens Wind (FO 57 ld)
	04/10/11 21:45 CST		0	Thunderstorm Wind (EG 57 kt)
	04/10/11 21:45 CST		0	Source: Trained Spotter
MILWAUKEE COUNTY WEST ALLIS [4	3.00, -87.97] 04/10/11 21:45 CST		0	Thunderstorm Wind (EG 61 kt)
	04/10/11 21:45 CST		0	Source: Trained Spotter
A severe thunderstorm produced damaging the strong winds. An outbreak of severe thunderstorms, caproduced 10 tornadoes in Wisconsin, which state. Southern Wisconsin was in the ward development until early in the evening. Trapidly developing in an unstable envirous reported in the Milwaukee/Sullivan Countsoutheast of Berlin. Severe thunderstorn	used by low pressure moving from ich tied a record for the largest nurm sector of the system for most on the exit region of an upper jet helpenment, with surface-based CAPE or by Warning Area, an EFO tornado the	n southwest Minn mber of tornadoe f the day, with a c ed break the cap, f 2000 J/kg and st nat tracked across	esota across north s in one day in the apping inversion with severe super- trong vertical shea s northeast Green	hwest Wisconsin, e month of April in the preventing thunderstorm -cell thunderstorms rr. There was one tornado
(WI-Z046) MARQUETTE, (WI-Z047) GREE (WI-Z058) DODGE, (WI-Z059) WASHINGT (WI-Z066) MILWAUKEE, (WI-Z067) LAFAY	ON, (WI-Z060) OZAUKEE, (WI-Z062)) IOWA, (WI-Z063)) DANE, (WI-Z064)	JEFFERSON, (WI-Z065) WAUKESHA,
Southern Wisconsin was situated between	en a polar high pressure area cente orthwest Illinois during the day on A			

0

A strong late-season surface low pressure system crossed central Illinois into Lower Michigan on the 19th, bringing a variety of weather to southern Wisconsin. A tight 850 mb to 700 mb baroclinic zone over the region set up a strong frontogenetic response and isentropic lift with a strengthening low level flow ahead of the low...with rain showers and a few strong thunderstorms on the warm side of the system...and heavy wet snow to the north. The precipitation rates were enhanced by elevated instability and a strong dynamic contribution with the vigorous 500 mb short wave trough leading to thunder snow in the northern counties, and a severe thunderstorm in Rock County. The mix of rain, sleet and snow was accompanied by gusty east winds that lowered visibilities and added to the difficult driving conditions that led to numerous vehicle accidents across the region. Maximum storm-total snowfall amounts ranged from 6 to 7 inches in the northern parts of the counties of Green Lake and Marquette.

04/19/11 12:00 CST

04/19/11 20:40 CST

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Winter Storm

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z0	58) DODGE, (WI-Z059) WASHII	NGTON		
	04/19/11 12:00 CST		0	Winter Weather
	04/19/11 20:40 CST		0	
A strong late-season surface low pressure sys	stem crossed central Illinois in	to Lower Michiga	an on the 19th, bri	nging a variety of

A strong late-season surface low pressure system crossed central Illinois into Lower Michigan on the 19th, bringing a variety of weather to southern Wisconsin. Rain showers and a few strong thunderstorms occurred on the warm side of the system...and heavy wet snow to the north. Some thunder-snow was reported. The mix of rain, sleet and snow was accompanied by gusty east winds that lowered visibilities and added to the difficult driving conditions that led to a number of vehicle accidents across the region. Snowfall amounts were generally in the 3 to 5 inch range.

ROCK COUNTY 1.1 W BELOIT JCT [42.50, -89.04]					
04/19/11 12:30 CST	0	Thunderstorm Wind (EG 65 kt)			
04/19/11 12:30 CST	0	Source: Law Enforcement			

Strong winds from a thunderstorm, enhanced by a gravity wave passing through the region, produced a wind gust estimated at 65 knots (75 mph) in the city of Beloit. The strong winds collapsed the roof of a day care center. Heavy rain and hail were also occurring at the time of the roof collapse.

SHEBOYGAN COUNTY 1.4 E PLYMOUTH [43.75, -87.95]						
04/19/11 17:40 CST	3K	Lightning				
04/19/11 17:40 CST	0	Source: Newspaper				

Lightning struck a utility pole, destroying an insulator and caused an electrical wire to break and fall to the ground. 500 homes and businesses were left without power on the east side of Plymouth, until repairs were made and all power was restored around 915 pm CDT.

A strong late-season surface low pressure system crossed central Illinois into Lower Michigan on the 19th, bringing a variety of weather to southern Wisconsin. A tight 850 mb to 700 mb baroclinic zone over the region set up a strong frontogenetic response and isentropic lift with a strengthening low level flow ahead of the low...with rain showers and a few strong thunderstorms on the warm side of the system...and heavy wet snow to the north. The precipitation rates were enhanced by elevated instability and a strong dynamic contribution with the vigorous 500 mb short wave trough leading to thunder snow in the northern counties and a severe thunderstorm in Rock County.

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Deaths &

Property &

Event Type and Details

Date/Time

Location

05/22/11 17:17 CST 0 Source: C-MAN S SHEBOYGAN TO PT WASHINGTON WI COUNTY 1.4 E SHEBOYGAN [43.75, -87.69] 05/22/11 18:00 CST 0 Marine Thunderst 05/22/11 18:00 CST 0 Source: C-MAN S WIND PT LT WI TO WINTHROP HBR IL COUNTY 1.2 ENE KENOSHA [42.59, -87.81] 05/22/11 19:00 CST 0 Source: C-MAN S WIND PT LT WI TO WIND PT WI COUNTY 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88] 05/22/11 19:00 CST 0 Marine Thunderst 05/22/11 19:00 CST 0 Marine Thunderst 05/22/11 19:00 CST 0 Marine Thunderst 05/22/11 19:16 CST 0 Marine Thunderst 05/22/11 19:16 CST 0 Marine Thunderst 05/22/11 19:16 CST 0 Source: C-MAN S Several rounds of strong thunderstorms affected the near-shore waters of Lake Michigan during the early evening. WORTH PT LT TO WIND PT WI COUNTY 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88] 05/31/11 13.45 CST 1 0 Marine Strong Wir 05/31/11 13.45 CST 1 0 Source: C-MAN S Direct Fatalities: U0?? A strong cold front moved through the near shore areas during the afternoon of May 31st and generated severe storms with gusty winds over portions of the near-shore waters of Lake Michigan. WISCONSIN, Southeast FOND DU LAC COUNTY 5.8 S WAUPUN [43.55, -88.72] 05/09/11 13:47 CST 15/05 Ughtning Struck a building in the township of Chester, setting the 100-foot by 60-foot structure on fire. Damage was moderate, totaling 316 contained to one bay in the shop area at the rear of the building. DODGE COUNTY 0.5 WSW BEAVER DAM [43.47, -88.84] 05/09/11 19:15 CST 50/05 Lightning 51/05/09/11 19:15 CST 0 Source: Newspap 1000000 Not the structure of the building. DODGE COUNTY 0.5 WSW BEAVER DAM [43.47, -88.84] 05/09/11 19:15 CST 50/05 Lightning 51/05/09/11 19:15 CST 0 Source: Newspap 100000 Not the structure of the building. DODGE COUNTY 0.5 WSW BEAVER DAM [43.47, -88.84] 05/09/11 19:15 CST 50/05 Lightning 51/05/09/11 19:15 CST 0 Source: Newspap 100000 Not the structure of the building. DODGE COUNTY 0.5 WSW BEAVER DAM [43.47, -88.84] 05/09/11 19:15 CST 50/05 Lightning 51/05/09/11 19:15 CST 0 Source: Newspap 100000 N	ightning ource: Newspaper
T WASHINGTON TO NORTH PT LT WI COUNTY 0.6 N PORT WASHINGTON [43.39, 47.87] 05/22/11 17:17 CST 0 Marine Thunderst 05/22/11 17:17 CST 0 Marine Thunderst 05/22/11 17:17 CST 0 Marine Thunderst 05/22/11 18:00 CST 0 Marine Thunderst 05/22/11 18:00 CST 0 Marine Thunderst 05/22/11 18:00 CST 0 Marine Thunderst 05/22/11 19:00 CST 0 Source: C-MAN S 05/22/11 19:00 CST 0 Marine Thunderst 05/22/11 19:00 CST 0 Source: C-MAN S 05/22/11 19:00 CST 0 Marine Thunderst 05/22/11 19:15 CST 0 Marine Thunderst 05/22/11 19:15 CST 0 Marine Thunderst 05/22/11 19:15 CST 0 Source: C-MAN S 05/21/11 19:15 CST 0 Source: C-MAN S 05/09/11 19:15 CST 0 Source: Newspap 10/09/11 19:15 CST 5 SOK Lightning 05/09/11 19:15 CST 5 SOK	darine Thunderstorm Wind (MG 39 kt) ource: C-MAN Station darine Thunderstorm Wind (MG 37 kt) ource: C-MAN Station darine Thunderstorm Wind (MG 35 kt) ource: C-MAN Station darine Strong Wind (MG 38 kt) ource: C-MAN Station frams with gusty ightning ource: Newspaper
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05/09/11 13:47 CST 15K Lightning 05/09/11 13:47 CST 0 Source: Newspaper of the structure on the shop area at the rear of the building. DODGE COUNTY 0.5 WSW BEAVER DAM [43.47, -88.84] 05/09/11 19:15 CST 50K Lightning 05/09/11 19:15 CST 0 Source: Newspaper of the structure on the structure o	ource: Newspaper
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	_
05/11/11 12:36 CST 0 Hail (1.00 in)	
	ail (1.00 in)
05/11/11 12:36 CST 0 Source: Trained S	ource: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/11/11 12:41 CST		0	Hail (1.00 in)
	05/11/11 12:41 CST		0	Source: Trained Spotter
DANE COUNTY 2.0 E (MSN)TRUAX FLD MADIS	S [43.1389.29]			
2.0 2 (mon) morbit 25 m/s.	05/11/11 12:43 CST		0	Hail (1.00 in)
	05/11/11 12:43 CST		0	Source: Trained Spotter
DANE COUNTY MC FARLAND [43.02, -89.28]				
DAIL 000111 110 1 AILENTD [10:02, -00:20]	05/11/11 12:43 CST		0	Hail (1.00 in)
	05/11/11 12:43 CST		0	Source: Trained Spotter
DANE COUNTY 3.0 E DOWNTOWN MADISON	[43 07 _89 36]			
DAILE GOOK! I 0.0 E DOWN OWN MADIOON	05/11/11 12:45 CST		0	Hail (1.25 in)
	05/11/11 12:45 CST		0	Source: Trained Spotter
			-	
DANE COUNTY 1.0 E (MSN)TRUAX FLD MADIS	S [43.13, -89.31], 2.0 E (MSN) 05/11/11 12:47 CST	TRUAX FLD MA	DIS [43.13, -89.29]	Hail (1 50 in)
	05/11/11 12:47 CST 05/11/11 12:47 CST			Hail (1.50 in) Source: Trained Spotter
	05/11/11 12:47 CS1		0	Source: Trained Spotter
DANE COUNTY 4.0 E MC FARLAND [43.02, -89	-			Heli (a aa is)
	05/11/11 13:00 CST		0	Hail (2.00 in)
	05/11/11 13:00 CST		0	Source: Public
JEFFERSON COUNTY 5.0 WNW FT ATKINSON	N [42.96, -88.94]			_
	05/11/11 13:26 CST		0	Hail (1.75 in)
	05/11/11 13:26 CST		0	Source: Law Enforcement
DANE COUNTY 1.0 W SUN PRAIRIE [43.18, -89	9.22]			
	05/11/11 13:28 CST		0	Hail (1.00 in)
	05/11/11 13:28 CST		0	Source: Amateur Radio
DANE COUNTY 4.7 NNE LONDON [43.11, -88.9	951			
	05/11/11 13:30 CST		0	Hail (1.00 in)
	05/11/11 13:30 CST		0	Source: Trained Spotter
JEFFERSON COUNTY 4.0 W JEFFERSON [43.0	0088.881			
	05/11/11 13:34 CST		0	Hail (4.25 in)
	05/11/11 13:34 CST		0	Source: Emergency Manager
JEFFERSON COUNTY 1.0 N JEFFERSON [43.0	11 -88 801			
1 1	05/11/11 13:40 CST		0	Hail (2.00 in)
	05/11/11 13:43 CST		0	Source: NWS Employee
IEEEEDSON COUNTY IOUNSON OBEET 120	10 00 771			
JEFFERSON COUNTY JOHNSON CREEK [43.0	05/11/11 13:40 CST		0	Hail (2.75 in)
	05/11/11 13:40 CST		0	Source: Public
Report from the public of baseball-sized hail that br	roke windows on homes and v	vehicles.		
DANE COUNTY 0.4 NE VERONA [42.98, -89.52]	1			
	05/11/11 15:08 CST		0	Hail (1.25 in)
	05/11/11 15:08 CST		0	Source: Amateur Radio
DANE COUNTY 2.0 S DOWNTOWN MADISON	[43.04, -89.42]			
	05/11/11 15:28 CST		0	Hail (1.25 in)
	05/11/11 15:28 CST		0	Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DANE COUNTY 1.2 NW MIDDLETON [43.11	1, -89.52]			
	05/11/11 15:30 CST		0	Hail (0.75 in)
	05/11/11 15:30 CST		0	Source: Trained Spotter
WAUKESHA COUNTY HARTLAND [43.10,	-88.35]			
	05/11/11 15:30 CST		0	Hail (2.00 in)
	05/11/11 15:30 CST		0	Source: Trained Spotter
WAUKESHA COUNTY 1.0 S HARTLAND [4	3.09, -88.35]			
	05/11/11 15:37 CST		0	Hail (1.00 in)
	05/11/11 15:37 CST		0	Source: Amateur Radio
DANE COUNTY DOWNTOWN MADISON [4	3.07, -89.42]			
	05/11/11 15:38 CST		0	Hail (0.75 in)
	05/11/11 15:38 CST		0	Source: Trained Spotter
GREEN COUNTY 0.7 S MONROE [42.59, -8	9.63]			
	05/11/11 15:38 CST		0	Hail (1.00 in)
	05/11/11 15:38 CST		0	Source: Emergency Manager
WAUKESHA COUNTY HARTLAND [43.10,	-88.35]			
	05/11/11 15:44 CST		0	Hail (1.25 in)
	05/11/11 15:44 CST		0	Source: NWS Employee
DANE COUNTY 1.6 SSE MONONA [43.05, -	-89.31]			
	05/11/11 15:45 CST		0	Hail (1.75 in)
	05/11/11 15:45 CST		0	Source: Trained Spotter
DANE COUNTY 1.8 SW COTTAGE GROVE	[43.06, -89.23]			
	05/11/11 15:50 CST		0	Hail (1.00 in)
	05/11/11 15:50 CST		0	Source: Trained Spotter
DANE COUNTY COTTAGE GROVE [43.08,	-89.20]			
	05/11/11 15:54 CST		0	Hail (0.88 in)
	05/11/11 15:54 CST		0	Source: Trained Spotter
DANE COUNTY DOWNTOWN MADISON [4	3.07, -89.42]			
	05/11/11 16:01 CST		0	Hail (0.75 in)
	05/11/11 16:01 CST		0	Source: Trained Spotter
RACINE COUNTY 1.0 SE BOHNERS LAKE	[42.62, -88.26]			
	05/11/11 16:55 CST		0	Hail (0.88 in)
	05/11/11 16:55 CST		0	Source: Trained Spotter
Strong to severe thunderstorms developed a eroded a cap on a moist and unstable air massustained updrafts. There were numerous reported in Jefferson County. While no speci Director stated some properties might have recommended.	ss, with mixed-layer CAPE valu ports of large hail in the 1 to 2 ific damage reports were made	ues of 2,000 to 3,0 inch range with the to officials, the J	00 J/KG, and enou ne severe thunders efferson County E	igh deep-layer shear for storms, with 4-inch hail
FOND DU LAC COUNTY RIPON [43.83, -88	.83]			
	05/12/11 16:08 CST		0	Hail (0.75 in)
	05/12/11 16:08 CST		0	Source: Law Enforcement

A few strong thunderstorms developed as lift associated with a 500 mb short wave interacted with an unstable air mass, with 1500 J/KG of mixed-layer CAPE and enough deep-layer shear for sustained updrafts over southern Wisconsin. There were reports of one-half inch to three-quarter inch hail, mainly in western Fond Du Lac County, and one-quarter inch hail in western sections of Racine and Kenosha counties.

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	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
(WI-Z047) GREEN LAKE, (WI-Z051) FOND [DU LAC, (WI-Z052) SHEBOYGAN,	(WI-Z060) OZAUK	(EE		
	05/13/11 01:00 CST		0	Dense Fog	
	05/13/11 10:00 CST		0		
Light north to northeast winds behind slov east-central and portions of southeast Wis and lingered until the mid to late morning	consin during the early morning	hours of May 13th	n. Visibilities fell to	o one-quarter mile or less,	
ROCK COUNTY 2.0 NE AFTON [42.62, -8	39.04]				
	05/13/11 05:24 CST		0	Hail (0.75 in)	
	05/13/11 05:24 CST		0	Source: Trained Spotter	
A few strong elevated thunderstorms deve an unstable air mass, with 1000-2000 J/KG Central Wisconsin. There were reports of t	of mixed-layer CAPE and enoug	h deep-layer shea			
(WI-Z051) FOND DU LAC, (WI-Z052) SHEBG OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DAN	NE, (WI-Z064) JEFFERSON, (WI-Z	065) WAUKESHA,	(WI-Z066) MILWA		
(WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z0	05/15/11 06:00 CST	114E, (VVI-ZU/Z) KE	90K	Strong Wind (MAX 41 kt)	
	05/15/11 17:00 CST		0	casing time (in oct in ite)	
Canada, produced strong north to northea dry air that had spread into the region with ground level. This mixing resulted in susta power-outages were reported due to broke	n the leading edge of the high allo nined winds of 30 to 35 mph and v	owed mixing up to wind gusts up to 4	40 to 45 knot win 5 mph at the surf	ds about 5,000 feet above	
MARQUETTE COUNTY WESTFIELD [43.	<u>=</u>		0	Hail (2.00 in)	
MARQUETTE COUNTY WESTFIELD [43.	.88, -89.48] 05/22/11 14:00 CST 05/22/11 14:00 CST		0	Hail (2.00 in) Source: Trained Spotter	
	05/22/11 14:00 CST 05/22/11 14:00 CST				
MARQUETTE COUNTY WESTFIELD [43. A trained spotter reported leaves stripped from MARQUETTE COUNTY 1.0 E WESTFIEL	05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail.		0	Source: Trained Spotter	
A trained spotter reported leaves stripped fro	05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST		0	Source: Trained Spotter Hail (4.25 in)	
A trained spotter reported leaves stripped fro	05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail.		0	Source: Trained Spotter	
A trained spotter reported leaves stripped from	05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST		0	Source: Trained Spotter Hail (4.25 in)	
A trained spotter reported leaves stripped from	05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST		0	Source: Trained Spotter Hail (4.25 in)	
A trained spotter reported leaves stripped from	05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST		0 0 0	Source: Trained Spotter Hail (4.25 in) Source: Fire Department/Rescue	
A trained spotter reported leaves stripped from MARQUETTE COUNTY 1.0 E WESTFIEL	05/22/11 14:00 CST 05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST D [43.87, -89.48] 05/22/11 14:10 CST 05/22/11 14:10 CST		0 0 0	Source: Trained Spotter Hail (4.25 in) Source: Fire Department/Rescue Hail (2.75 in)	
A trained spotter reported leaves stripped fro	05/22/11 14:00 CST 05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST D [43.87, -89.48] 05/22/11 14:10 CST 05/22/11 14:10 CST		0 0 0	Source: Trained Spotter Hail (4.25 in) Source: Fire Department/Rescue Hail (2.75 in) Source: Public	
A trained spotter reported leaves stripped from MARQUETTE COUNTY 1.0 E WESTFIEL	05/22/11 14:00 CST 05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST D [43.87, -89.48] 05/22/11 14:10 CST 05/22/11 14:10 CST		0 0 0 0	Source: Trained Spotter Hail (4.25 in) Source: Fire Department/Rescue Hail (2.75 in) Source: Public Hail (1.75 in)	
A trained spotter reported leaves stripped from MARQUETTE COUNTY 1.0 E WESTFIEL	05/22/11 14:00 CST 05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST D [43.87, -89.48] 05/22/11 14:10 CST 05/22/11 14:10 CST		0 0 0	Source: Trained Spotter Hail (4.25 in) Source: Fire Department/Rescue Hail (2.75 in) Source: Public	
A trained spotter reported leaves stripped from MARQUETTE COUNTY 1.0 E WESTFIEL MARQUETTE COUNTY 1.0 S WESTFIEL MARQUETTE COUNTY 7.0 W NESHKOR	05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST D [43.87, -89.48] 05/22/11 14:10 CST 05/22/11 14:10 CST 20 [43.97, -89.36] 05/22/11 14:20 CST 05/22/11 14:20 CST		0 0 0 0	Source: Trained Spotter Hail (4.25 in) Source: Fire Department/Rescue Hail (2.75 in) Source: Public Hail (1.75 in)	
A trained spotter reported leaves stripped from MARQUETTE COUNTY 1.0 E WESTFIEL MARQUETTE COUNTY 1.0 S WESTFIEL MARQUETTE COUNTY 7.0 W NESHKOR	05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST D [43.87, -89.48] 05/22/11 14:10 CST 05/22/11 14:10 CST 20 [43.97, -89.36] 05/22/11 14:20 CST 05/22/11 14:20 CST		0 0 0 0	Source: Trained Spotter Hail (4.25 in) Source: Fire Department/Rescue Hail (2.75 in) Source: Public Hail (1.75 in)	
A trained spotter reported leaves stripped from MARQUETTE COUNTY 1.0 E WESTFIEL MARQUETTE COUNTY 1.0 S WESTFIEL MARQUETTE COUNTY 7.0 W NESHKOR	05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST D [43.87, -89.48] 05/22/11 14:10 CST 05/22/11 14:10 CST 05/22/11 14:20 CST 05/22/11 14:20 CST		0 0 0 0	Source: Trained Spotter Hail (4.25 in) Source: Fire Department/Rescue Hail (2.75 in) Source: Public Hail (1.75 in) Source: Trained Spotter	
A trained spotter reported leaves stripped from MARQUETTE COUNTY 1.0 E WESTFIEL MARQUETTE COUNTY 1.0 S WESTFIEL MARQUETTE COUNTY 7.0 W NESHKOR	05/22/11 14:00 CST 05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST D [43.87, -89.48] 05/22/11 14:10 CST 05/22/11 14:10 CST RO [43.97, -89.36] 05/22/11 14:20 CST 05/22/11 14:20 CST ON [43.97, -89.12] 05/22/11 14:22 CST 05/22/11 14:22 CST		0 0 0 0	Source: Trained Spotter Hail (4.25 in) Source: Fire Department/Rescue Hail (2.75 in) Source: Public Hail (1.75 in) Source: Trained Spotter Hail (1.75 in)	
A trained spotter reported leaves stripped from MARQUETTE COUNTY 1.0 E WESTFIEL MARQUETTE COUNTY 1.0 S WESTFIEL MARQUETTE COUNTY 7.0 W NESHKOR	05/22/11 14:00 CST 05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST D [43.87, -89.48] 05/22/11 14:10 CST 05/22/11 14:10 CST RO [43.97, -89.36] 05/22/11 14:20 CST 05/22/11 14:20 CST ON [43.97, -89.12] 05/22/11 14:22 CST 05/22/11 14:22 CST		0 0 0 0 0	Source: Trained Spotter Hail (4.25 in) Source: Fire Department/Rescue Hail (2.75 in) Source: Public Hail (1.75 in) Source: Trained Spotter Hail (1.75 in) Source: Law Enforcement	
A trained spotter reported leaves stripped from MARQUETTE COUNTY 1.0 E WESTFIEL	05/22/11 14:00 CST 05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST D [43.87, -89.48] 05/22/11 14:10 CST 05/22/11 14:10 CST RO [43.97, -89.36] 05/22/11 14:20 CST 05/22/11 14:20 CST ON [43.97, -89.12] 05/22/11 14:22 CST 05/22/11 14:22 CST		0 0 0 0	Source: Trained Spotter Hail (4.25 in) Source: Fire Department/Rescue Hail (2.75 in) Source: Public Hail (1.75 in) Source: Trained Spotter Hail (1.75 in)	
A trained spotter reported leaves stripped from MARQUETTE COUNTY 1.0 E WESTFIEL MARQUETTE COUNTY 1.0 S WESTFIEL MARQUETTE COUNTY 7.0 W NESHKOR	05/22/11 14:00 CST 05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST D [43.87, -89.48] 05/22/11 14:10 CST 05/22/11 14:10 CST RO [43.97, -89.36] 05/22/11 14:20 CST ON [43.97, -89.12] 05/22/11 14:22 CST 05/22/11 14:22 CST		0 0 0 0 0	Source: Trained Spotter Hail (4.25 in) Source: Fire Department/Rescue Hail (2.75 in) Source: Public Hail (1.75 in) Source: Trained Spotter Hail (1.75 in) Source: Law Enforcement Hail (1.75 in)	
A trained spotter reported leaves stripped from MARQUETTE COUNTY 1.0 E WESTFIEL MARQUETTE COUNTY 1.0 S WESTFIEL MARQUETTE COUNTY 7.0 W NESHKOR	05/22/11 14:00 CST 05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST D [43.87, -89.48] 05/22/11 14:10 CST 05/22/11 14:10 CST O5/22/11 14:20 CST O5/22/11 14:20 CST ON [43.97, -89.12] 05/22/11 14:22 CST ON [43.97, -89.12] 05/22/11 14:22 CST ON [43.97, -89.12] 05/22/11 14:38 CST 05/22/11 14:38 CST		0 0 0 0 0	Hail (4.25 in) Source: Fire Department/Rescue Hail (2.75 in) Source: Public Hail (1.75 in) Source: Trained Spotter Hail (1.75 in) Source: Law Enforcement Hail (1.75 in) Source: Law Enforcement	
A trained spotter reported leaves stripped from MARQUETTE COUNTY 1.0 E WESTFIEL MARQUETTE COUNTY 1.0 S WESTFIEL MARQUETTE COUNTY 7.0 W NESHKOR GREEN LAKE COUNTY 8.0 N PRINCETO	05/22/11 14:00 CST 05/22/11 14:00 CST 05/22/11 14:00 CST om trees in Westfield by large hail. D [43.88, -89.46] 05/22/11 14:05 CST 05/22/11 14:05 CST D [43.87, -89.48] 05/22/11 14:10 CST 05/22/11 14:10 CST O5/22/11 14:20 CST ON [43.97, -89.36] 05/22/11 14:20 CST ON [43.97, -89.12] 05/22/11 14:22 CST ON [43.97, -89.12] 05/22/11 14:38 CST 05/22/11 14:38 CST		0 0 0 0 0	Source: Trained Spotter Hail (4.25 in) Source: Fire Department/Rescue Hail (2.75 in) Source: Public Hail (1.75 in) Source: Trained Spotter Hail (1.75 in) Source: Law Enforcement Hail (1.75 in)	

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Printed on:

DANE COUNTY --- 2.0 W SUN PRAIRIE [43.18, -89.24], 4.4 N YORK CENTER [43.29, -89.07]

Location	Date/Time	Deaths &	Property &	Event Type and Details
	- 4.0	Injuries	Crop Dmg	
	05/22/11 15:50 CST		0	Hail (1.75 in)
	05/22/11 16:10 CST		0	Source: Amateur Radio
Ham radio operators reported severe thunderstor around 4 miles south-southwest of Columbus.	ms dropped hail up to 1.75 ir	nches in diameter in	n a 4-mile wide swa	ath from 2 miles west of Sun Prairie to
JEFFERSON COUNTY 3.0 SW LAKE MILLS [-	43.05, -88.94], 1.0 NE LAKE	MILLS [43.09, -88.8	39]	
	05/22/11 16:30 CST		0	Hail (1.00 in)
	05/22/11 16:35 CST		0	Source: Amateur Radio
Ham radio operators reported severe thunderstor 1 mile northeast of Lake Mills.	ms dropped hail up to 1.00 ir	nch in diameter in a	3-mile wide swath	from 3 miles southwest of Lake Mills to
DODGE COUNTY 1.0 N CLYMAN [43.33, -88.7	=			
	05/22/11 16:36 CST		0	Hail (1.00 in)
	05/22/11 16:36 CST		0	Source: Amateur Radio
DODGE COUNTY HUSTISFORD [43.35, -88.60	n1			
20202 000111 11001101 OND [40.00, -00.00	05/22/11 16:40 CST		10K	Thunderstorm Wind (EG 60 kt)
	05/22/11 16:40 CST		0	Source: Newspaper
he roof. A tree fell on an occupied car, and the di			ing the car. Total d	Hail (1.75 in)
	05/22/11 16:56 CST		0	Source: NWS Employee
ROCK COUNTY MILTON [42.77, -88.95]	05/22/11 16:51 CST 05/22/11 16:51 CST		0	Hail (0.75 in) Source: NWS Employee
JEFFERSON COUNTY 2.0 S WATERTOWN [4	3.17, -88.72], WATERTOWN	I [43.20, -88.72]		
	05/22/11 16:52 CST		50K	Thunderstorm Wind (EG 56 kt)
	05/22/11 16:54 CST		0	Source: Newspaper
Numerous trees and power lines were reported by Watertown to Watertown. A tree fell on a home, watertown damaged fencing, a viewing platform and a horse	vith minimal damage reported trailer at the Avalon Therape	d by firefighters res eutic Equestrian Ce	ponding to the scer	ne. The winds blew over a shed that
JEFFERSON COUNTY FT ATKINSON [42.93,	-88.85], JEFFERSON [43.00, 05/22/11 16:55 CST	, -88.80]	5K	Thunderstorm Wind (MG 50 kt)
	05/22/11 17:00 CST		0	Source: Mesonet
Trees and power lines were reported blown down Jefferson.	by damaging thunderstorm	wind gusts measur	ed at 50 knots (58	mph) in a swath from Ft. Atkinson to
WALWORTH COUNTY 8.0 S WHITEWATER [-	42.71, -88.73] 05/22/11 17:01 CST		0	Hail (1.25 in)
	05/22/11 17:01 CST		0	Source: Amateur Radio
	·-			
DODGE COUNTY HUSTISFORD [43.35, -88.60	05/22/11 17:05 CST		0.50K	Thunderstorm Wind (EG 56 kt)
	05/22/11 17:05 CST		0.5510	Source: Public
A second round of severe thunderstorms affected damage to a house.		rinds. This round do		
WALWORTH COUNTY RICHMOND [42.72, -88	3.73], MILLARD [42.73, -88.6	[2]		
	05/22/11 17:05 CST		0	Hail (1.75 in)
	05/22/44 47:40 CCT		^	Course: Ameteur Dadie

05/22/11 17:10 CST

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Source: Amateur Radio

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NALWORTH COUNTY WHITEWATER [4	12.83, -88.73]			
	05/22/11 17:10 CST		5K	Thunderstorm Wind (EG 52 kt)
	05/22/11 17:10 CST		0	Source: Trained Spotter
A trained spotter reported severe thundersto	orm wind gusts that downed trees a	and tree limbs in W	hitewater.	
WASHINGTON COUNTY HARTFORD [4		88.33]		
	05/22/11 17:12 CST		10K	Thunderstorm Wind (EG 56 kt)
	05/22/11 17:15 CST		0	Source: Public
Severe thunderstorms affected locations alound a house.	ng a Hartford to Allenton line with	damaging winds. ٦	he severe wind gu	ists downed trees that damaged a car
SAUK COUNTY 2.0 S REEDSBURG [43.	- · ·			
	05/22/11 17:18 CST		0	Hail (0.75 in)
	05/22/11 17:18 CST		0	Source: Public
NAUKESHA COUNTY 4.3 SW EAGLE [4	12.84, -88.54], 0.4 WNW NORTH PI	RAIRIE [42.93, -88	.41]	
	05/22/11 17:18 CST	- ,	0	Hail (1.75 in)
	05/22/11 17:30 CST		0	Source: Fire Department/Rescue
A name throughout one of the Paris	4.75 inches to discuss to 1	uniala accesso de la constante		
A severe thunderstorm produced hail up to a North Prairie.	1.75 inches in diameter in a 4-mile	wide swath from ti	ne southwest corne	er of Waukesha County northeast to
EFFERSON COUNTY 3.7 NE OAK HILL	-			
	05/22/11 17:27 CST		0	Hail (1.25 in)
	05/22/11 17:27 CST		0	Source: Official NWS Observations
WASHINGTON COUNTY 4.0 E JACKSOI	N [43 32 -88 09]			
	05/22/11 17:35 CST		0	Hail (1.00 in)
	05/22/11 17:35 CST		0	Source: Public
OZAUKEE COUNTY 0.3 N WAUBEKA [4	3.47, -87.98] 05/22/11 17:37 CST		0	Hail (1.00 in)
	05/22/11 17:37 CST		0	Source: Public
	03/22/11 17.37 031		O	Source. Fublic
SHEBOYGAN COUNTY RANDOM LAKE	[43.55, -87.97], 1.0 W CEDAR GR	OVE [43.57, -87.8	5]	
	05/22/11 17:39 CST		0	Thunderstorm Wind (MG 52 kt)
	05/22/11 17:45 CST		0	Source: Trained Spotter
A trained spotter reported severe thundersto	orm wind gusts that downed trees a	and tree limbs alon	g a line from Rand	om Lake to a mile west of Cedar Grove.
ROCK COUNTY 1.0 W BELOIT [42.52, -8		5]		
	05/22/11 18:05 CST		0	Thunderstorm Wind (MG 52 kt)
	05/22/11 18:05 CST		0	Source: Amateur Radio
A ham radio operator reported severe thund blocked Findley Road for a time.	erstorm wind gusts that downed tr	ees and tree limbs	along a line from r	near Beloit to Afton. The downed trees
WALWORTH COUNTY 2.0 S ELKHORN	=			
	05/22/11 18:30 CST		10K	Thunderstorm Wind (EG 52 kt)
	05/22/11 18:30 CST		0	Source: Emergency Manager
A severe thunderstorm produced wind gusts few homes as well as a fence.	that downed power lines, trees ar	nd tree limbs just s	outh of Elkhorn. Th	e downed trees and limbs damaged a
GREEN LAKE COUNTY 0.9 NE DALTON	I [43.66, -89.19], 1.3 NE DALTON [43.66, -89.18]		
	05/22/11 18:33 CST		1K	Tornado (EF0, L: 0.36 mi , W: 30 yd)
	0E/22/44 40:24 CCT		0	Course: Emergency Monegor

05/22/11 18:34 CST

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Source: Emergency Manager

0

Deaths &

Injuries

Crop Dmg An EF0 tornado spun up about 2 miles south-southwest of Kingston about 900 ft southeast of the intersection of County Road H and State Highway 44 and traveled northeast approximately 1/3 mile before dissipating just south of State Highway 44. The tornado damaged a door on a shed, broke tree branches, and damaged a greenhouse. The EF-rating was based on DI 27(TH) DOD 2 with winds of 65 mph. The starting location was 43.658216/-89.185059 and the ending location was 43.661958/-89.179995. Average path width was about 15 yards. WALWORTH COUNTY --- LYONS [42.65, -88.35] Thunderstorm Wind (EG 56 kt) 05/22/11 18:40 CST n 05/22/11 18:40 CST 0 Source: Newspaper A severe thunderstorm produced damaging wind gusts that downed trees in the town of Lyons, including a large maple tree that was estimated to be 235

RACINE COUNTY --- 1.0 W BURLINGTON [42.67, -88.29], 3.0 E BURLINGTON [42.67, -88.21]

Date/Time

0.15M Thunderstorm Wind (EG 70 kt) 05/22/11 18:45 CST

Property &

Event Type and Details

05/22/11 18:50 CST Source: Newspaper

Severe thunderstorms produced damaging wind gusts estimated at 80 mph. Many power lines and trees were taken down by the strong winds, and several homes and cars were damaged.

GREEN LAKE COUNTY --- 0.7 WSW MARKESAN [43.72, -88.99], 3.5 E MARKESAN [43.73, -88.91]

05/22/11 18:47 CST 5K Tornado (EF0, L: 4.21 mi, W: 50 yd) 05/22/11 18:55 CST 0 Source: Emergency Manager

An EF0 tornado spun up about 0.3 miles northwest of downtown Markesan just west of State Highway 44 (Margaret Street) about 1/2 mile south of the intersection with County Road H and traveled east-northeast slightly over 4 miles before dissipating near Utley, about 1/4 mile west-northwest of the intersection of Utley Road and County Highway Q. The tornado broke tree branches, with some of them snapping a couple power lines. The EF-rating was based on DI 27(TH) DOD 2 with winds of 75 mph. The starting location was 43.715256/-88.992648 and the ending location was 43.728902/-88.910465. The average path width was about 30 yards.

KENOSHA COUNTY --- 1.0 SW SILVER LAKE [42.54, -88.18], 1.0 NW PADDOCK LAKE [42.59, -88.13]

05/22/11 18:48 CST 0.10M Thunderstorm Wind (EG 70 kt)

05/22/11 18:50 CST 0 Source: Newspaper

Severe thunderstorms produced damaging wind gusts estimated at 80 mph (70 knots). Many power lines and trees were taken down by the strong winds, and several homes and cars were damaged, including a home that had the roof taken off by the severe wind gusts.

RACINE COUNTY --- UNION GROVE [42.68, -88.05]

years old, the oldest tree in Walworth County.

Location

05/22/11 18:54 CST 0 Thunderstorm Wind (MG 52 kt)

0 05/22/11 18:54 CST Source: Mesonet

MILWAUKEE COUNTY --- 2.0 W (MKE)MITCHELL APT MI [42.95, -87.94], (MKE)MITCHELL APT MI [42.95, -87.90]

05/22/11 19:02 CST Thunderstorm Wind (MG 53 kt) 0

05/22/11 19:07 CST 0 Source: ASOS

A severe thunderstorm produced wind gusts measured up to 61 mph. The winds blew off a portion of the roof of a Day Inn at 13th Street and College

A deep 500 mb low and associated surface low pressure tracked from eastern South Dakota into central Minnesota, lifting a warm front into Wisconsin during the early afternoon of May 22nd. Cool 500 mb temperatures and moist surface dew points in the lower 60s produced sufficient instability for thunderstorm development, with mean-layer CAPE of 2000 to 2500 J/KG. A mid-level jet streak of 50-60 knots produced 40-50 knots of deep-layer wind shear for supercell thunderstorm development, with low-level shear of 30 to 40 knots in the 0-1 km layer as a low-level jet strengthened enhancing the tornado potential, especially near the warm front.

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Deaths &

Property &

Event Type and Details

Date/Time

Location

WISCONSIN, Southeast

Injuries Crop Dmg **LAKE MICHIGAN** PT WASHINGTON TO NORTH PT LT WI COUNTY --- 0.6 N PORT WASHINGTON [43.39, -87.87] 06/08/11 06:20 CST 0 Marine Thunderstorm Wind (MG 35 kt) 06/08/11 06:20 CST 0 Source: C-MAN Station Small line of strong thunderstorms affected portions of the nearshore waters of Lake Michigan during the morning. NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88] 06/08/11 20:30 CST 0 Marine Thunderstorm Wind (MG 44 kt) 06/08/11 20:30 CST O Source: C-MAN Station Thirty-two knot sustained winds at the time of the 44 knot wind gust. PT WASHINGTON TO NORTH PT LT WI COUNTY --- 0.6 N PORT WASHINGTON [43.39, -87.87] 06/08/11 20:35 CST 0 Marine Thunderstorm Wind (MG 38 kt) 06/08/11 20:50 CST 0 Source: C-MAN Station Gusts exceeded 34 knots for 15 minutes. WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81] 06/08/11 20:40 CST 0 Marine Thunderstorm Wind (MG 42 kt) 06/08/11 20:50 CST 0 Source: C-MAN Station Wind gusts exceeded 34 knots for 10 to 20 minutes. A broken line of strong thunderstorms moved over the nearshore waters of Lake Michigan during the evening. WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81] 0 06/15/11 06:30 CST Marine High Wind (MG 58 kt) 06/15/11 07:10 CST 0 Source: C-MAN Station Wind gusts of 37 to 58 knots from 630 am CST to 710 am CST. Sustained winds of 53 knots with a gust to 58 knots at 650 am CST. Strong winds caused by a wake low pressure affected the southern portion of the nearshore and open waters of Lake Michigan for 30 to 45 minutes. NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88] Marine Thunderstorm Wind (MG 41 kt) 06/21/11 19:00 CST 0 06/21/11 19:00 CST 0 Source: C-MAN Station Several rounds of strong thunderstorms affected the near shore waters of Lake Michigan during the afternoon of June 21st. One line of thunderstorms resulted in strong winds at one of the marine observations stations. WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81] 06/30/11 19:20 CST 0 Marine Thunderstorm Wind (MG 57 kt) 06/30/11 20:10 CST 0 Source: C-MAN Station Strong outflow winds affected the nearshore waters from Wind Point to Winthrop Harbor for about 50 minutes. The strongest measured gust was 57 knots at 1940 LST. At 1920 LST, sustained winds reached 39 knots, with a gust to 53 knots. Gusts exceeded 33 knots from 1920 LST until 2010 LST. NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88] 06/30/11 19:30 CST 0 Marine Thunderstorm Wind (MG 34 kt) 06/30/11 19:30 CST 0 Source: C-MAN Station Strong thunderstorms moving south over the near shore and open waters of Lake Michigan produced damaging outflow winds.

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Location			roperty & rop Dmg	Event Type and Details
SAUK COUNTY 4.0 W REEDSBURG [43.5	53, -90.08]			
	06/06/11 04:20 CST	0		Hail (2.50 in)
	06/06/11 04:20 CST	0		Source: Law Enforcement
SAUK COUNTY LOGANVILLE [43.43, -90	.03]			
	06/06/11 04:40 CST	0		Hail (4.25 in)
	06/06/11 04:40 CST	0		Source: Public
SAUK COUNTY 1.0 S NORTH FREEDOM	[43.46, -89.87]			
	06/06/11 04:58 CST	0		Hail (2.75 in)
	06/06/11 04:58 CST	0		Source: Law Enforcement
COLUMBIA COUNTY 6.0 SW DEKORRA	[43.41, -89.55]			
	06/06/11 05:00 CST	0		Hail (1.00 in)
	06/06/11 05:00 CST	0		Source: Public
SAUK COUNTY 1.0 S BARABOO [43.46,	-89.73], 5.0 S BARABOO [43.40, -89.73]			
	06/06/11 05:35 CST	0		Hail (1.75 in)
	06/06/11 05:35 CST	0		Source: Amateur Radio
MARQUETTE COUNTY 2.0 S ENDEAVOR	R [43.67, -89.47]			
	06/06/11 05:50 CST	0		Hail (1.00 in)
	06/06/11 05:50 CST	0		Source: Public
COLUMBIA COUNTY ARLINGTON [43.33	, -89.37]			
	06/06/11 06:25 CST	0		Hail (1.00 in)
	06/06/11 06:25 CST	0		Source: Public
MARQUETTE COUNTY 3.0 SW GLENOAI	K [43.72, -89.37]			
	06/06/11 06:27 CST	0		Hail (1.25 in)
	06/06/11 06:27 CST	0		Source: Public
DODGE COUNTY 1.0 E RUBICON [43.33,	-88.45]			
	06/06/11 08:19 CST	0		Hail (1.75 in)
	06/06/11 08:19 CST	0		Source: Amateur Radio
GREEN LAKE COUNTY 2.0 W BERLIN [4	3.97, -88.97], BERLIN [43.97, -88.93]			
	06/06/11 08:22 CST	0		Hail (1.00 in)
	06/06/11 08:25 CST	0		Source: Emergency Manager
WASHINGTON COUNTY 1.5 SW HARTFO	ORD [43.30, -88.40], 2.0 S SLINGER [43.3 06/06/11 08:25 CST	_	10M	Hail (1.75 in)
	06/06/11 08:35 CST	0		Source: Emergency Manager
This hail swath was about 3 miles wide, resul	ting in numerous dented vehicles. Dama	ge amount is rou	igh estimate.	
FOND DU LAC COUNTY 5.0 NE RIPON [4	3.88, -88.76], 6.0 NE ROSENDALE [43.86 06/06/11 08:45 CST	6, -88.59]		Hail (1.00 in)
	06/06/11 09:10 CST	0		Source: Public
This hail swath was about 3 miles wide.				
FOND DU LAC COUNTY 2.0 NW EDEN [4	3.72, -88.40]			
	06/06/11 09:18 CST	0		Hail (1.00 in)
	06/06/11 09:18 CST	0		

Low level warm air advection and moisture transport produced increasing instability over the region as it pushed a surface warm front toward Wisconsin during the early morning hours of June 6th. A cluster of strong to severe elevated thunderstorms formed on the

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
eading edge of the strengthening low-lev	el jet as it veered south-southwest, fo	•		during the early daylight
ours. Moderate elevated instabilitystee	pening mid-level lapse rates and inci	reasing effectiv	e bulk shear up to	o 50 knots supported the
evelopment of severe thunderstorms wit	h large hail that affected mainly the r	orthern half of	the Milwaukee/Su	ullivan County Warning
rea.				
VI-Z062) IOWA, (WI-Z067) LAFAYETTE				
	06/07/11 11:00 CST		0	Heat
	06/07/11 19:00 CST		0	
				00. P
A warm and humid air mass settled over s nitially were in the mid to upper 60s, and			=	
noist dew points produced heat index val				-
ndex values ranged between 92 and 98 ac			, , , , , , , , , , , , , , , , , , , ,	,
OND DU LAC COUNTY 1.0 S FOND DU	J LAC [43.77, -88.45] 06/08/11 04:50 CST		0	Hail (0.75 in)
	06/08/11 04:50 CST		0	Source: Emergency Manager
	00/00/11 04.50 001		O	Source: Emergency Manager
/ASHINGTON COUNTY SLINGER [43.3	33, -88.28]			
	06/08/11 06:50 CST		0	Thunderstorm Wind (EG 56 kt)
	06/08/11 06:50 CST		0	Source: Law Enforcement
AFAYETTE COUNTY ARGYLE [42.70,	-89.87] 06/08/11 07:10 CST 06/08/11 07:10 CST		0	Hail (0.75 in) Source: Post Office
	00/00/11 07:10 031		U	Source. Post Office
EFFERSON COUNTY JOHNSON CREE	EK [43.08, -88.77]			
	06/08/11 08:22 CST		0	Hail (0.75 in)
	06/08/11 08:22 CST		0	Source: Trained Spotter
ODGE COUNTY 3.0 SE LEBANON [43.	.2288.591			
	06/08/11 08:30 CST		0	Hail (0.75 in)
	06/08/11 08:30 CST		0	Source: Trained Spotter
VACUUNOTON COUNTY - 2 2 N HARTEO	DD 140 00 00 001			
/ASHINGTON COUNTY 3.0 N HARTFO	06/08/11 08:46 CST		0	Hail (1.00 in)
	06/08/11 08:49 CST		0	Source: Trained Spotter
Some vehicles received minor denting.				
REEN COUNTY MONROE [42.60, -89.6	631, ALBANY [42,7089.431			
	06/08/11 09:20 CST		0.20M	Thunderstorm Wind (EG 61 kt)
	06/08/11 09:30 CST		0	Source: Law Enforcement
his was a "heat burst" - generated by a de buthwest winds and rising temperatures of dditionally, there were scattered reports of	10 to 20 degrees F. Large trees were	blown down in	Albany, and 2 buil	ldings in Monroe were damaged.
	12.76 90.221 EDCEDTON (42.92 90	.071		
ROCK COUNTY 2.0 SW EVANSVILLE [4	12.76, -03.33], EDGERTON [42.03, -03.	•.,		
ROCK COUNTY 2.0 SW EVANSVILLE [4	06/08/11 09:35 CST		50K	Thunderstorm Wind (EG 61 kt)

This was a "heat burst" - generated by a decaying convective rain shower band which resulted in evaporation of most of the rain that caused gusty southwest winds and rising temperatures of 10 to 20 degrees F. Two trailers in Edgerton were blown over and damaged: one was construction trailer and the other a semi-truck trailer. Also - a racetrack concession stand was demolished by the winds. Additionally, a few large trees were blown down and broken tree limbs knocked some power lines down. The damage swath was about 5 miles wide.

Increasing warm air advection and moisture transport on a 50 to 60 knot low-level jet, with increasing instability under steepening mid-level lapse rates, produced elevated thunderstorms with large hail during the early morning hours of June 8th. As the nocturnal low level inversion mixed out with daytime heating during the mid-morning hours, the storms became surface based, with damaging

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Deaths &

Injuries

Property &

Crop Dmg

Event Type and Details

Date/Time

Location

wind gusts as well as large hail. Additionally, the elevated nature of the showers and thu Wisconsin, caused the rain underneath to evaporate before reaching the ground. The ev base and caused it to accelerate toward the ground, creating isolated heat bursts in Gre that downed trees and power lines, and also rapidly raised air temperatures 10 to 20 deg	raporated rain cool en and Rock count	ed the air below the cloud
IOWA COUNTY 7.0 N HIGHLAND [43.15, -90.38]		
06/08/11 16:28 CST	0	Hail (1.00 in)
06/08/11 16:28 CST	0	Source: Trained Spotter
OWA COUNTY 7.0 N HIGHLAND [43.15, -90.38]		
06/08/11 17:12 CST	0	Hail (1.00 in)
06/08/11 17:12 CST	0	Source: Law Enforcement
OWA COUNTY 7.0 N HIGHLAND [43.15, -90.38]		
06/08/11 17:13 CST	0	Hail (2.50 in)
06/08/11 17:13 CST	0	Source: Broadcast Media
The report was received from WMTV-15 in Madison.		
OWA COUNTY 7.0 N HIGHLAND [43.15, -90.38]		
06/08/11 17:14 CST	0	Hail (1.75 in)
06/08/11 17:22 CST	0	Source: Trained Spotter
OWA COUNTY 1.0 NNE DODGEVILLE [42.98, -90.12]		
06/08/11 17:26 CST	0	Funnel Cloud
06/08/11 17:26 CST	0	Source: Trained Spotter
SAUK COUNTY 2.0 N PLAIN [43.31, -90.05]		
06/08/11 17:30 CST	0	Hail (1.50 in)
06/08/11 17:30 CST	0	Source: Public
MARQUETTE COUNTY 4.0 NE MONTELLO [43.84, -89.26]		
06/08/11 17:45 CST	0	Thunderstorm Wind (EG 56 kt)
06/08/11 17:45 CST	0	Source: Newspaper
Several large trees were blown down.		
MARQUETTE COUNTY BRIGGSVILLE [43.65, -89.58]		
06/08/11 18:05 CST	0	Thunderstorm Wind (EG 65 kt)
06/08/11 18:05 CST	0	Source: Newspaper
Several trees were uprooted.		
IOWA COUNTY 3.0 NW BARNEVELD [43.05, -89.94]		
06/08/11 18:10 CST	0	Thunderstorm Wind (EG 56 kt)
06/08/11 18:10 CST	0	Source: Trained Spotter
Several large trees were uprooted and large branches were broken.		
IOWA COUNTY BARNEVELD [43.02, -89.90]	0	Usil (0.75 in)
06/08/11 18:14 CST	0	Hail (0.75 in)
06/08/11 18:14 CST	0	Source: Trained Spotter
DANE COUNTY 2.0 WNW MT HOREB [43.01, -89.77], MT HOREB [43.00, -89.73]		
06/08/11 18:15 CST	0	Thunderstorm Wind (EG 65 kt)
06/08/11 18:20 CST	0	Source: Newspaper

Powerful thunderstorm winds pushed over several large trees, and broken tree branches snapped a few power-lines in a 2 to 3 mile wide swath. A

business's tower was toppled into its parking lot.

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	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
GREEN LAKE COUNTY DALTON [43.65,				
	06/08/11 18:19 CST		0	Thunderstorm Wind (EG 65 kt)
	06/08/11 18:37 CST		0	Source: Fire Department/Rescue
his downburst swath was about 10 miles wic	de. Trees and power lines were broug	ght down.		
DANE COUNTY 2.0 S MT HOREB [42.97,	•			
	06/08/11 18:20 CST		0	Hail (2.75 in)
	06/08/11 18:20 CST		0	Source: Broadcast Media
his report was received from WMTV-15 in M	ladison.			
REEN LAKE COUNTY MARQUETTE [43	3.75, -89.14] 06/08/11 18:23 CST		0	Hail (4.00 in)
	06/08/11 18:23 CST		0	Hail (1.00 in)
	00/00/11 16.23 CS1		U	Source: Emergency Manager
ANE COUNTY 4.0 WSW VERONA [42.96		9.54]		
	06/08/11 18:38 CST		0	Thunderstorm Wind (EG 65 kt)
	06/08/11 18:42 CST		0	Source: Trained Spotter
Downburst tree damage was caused by down /erona to north of McFarland.	ndrafts in a super-cell thunderstorm th	at spun up a n	earby tornado tha	t passed through the south side of
OWA COUNTY 4.0 SW MINERAL PT [42.8	81, -90.24] 06/08/11 18:40 CST		0	Thunderstorm Wind (EG 56 kt)
	06/08/11 18:40 CST		0	Source: Public
this few large trees were blown over and large to	branches knocked down			
DANE COUNTY 2.7 W VERONA [42.98, -8		1		
		1	0.10M	Tornado (EF0, L: 17.15 mi , W: 100 yd)
DANE COUNTY 2.7 W VERONA [42.98, -8	9.58], 1.6 WNW HOPE [43.06, -89.26] 06/08/11 18:41 CST 06/08/11 19:02 CST		0	Source: NWS Storm Survey
DANE COUNTY 2.7 W VERONA [42.98, -8] This tornado spun up southwest of Verona ababout 3 miles northeast of McFarland about 1 on the south side of Verona, numerous trees Several power lines were pulled down by brothe tornado path. However, most of the dama DOD 3. The actual starting location was 42.9	9.58], 1.6 WNW HOPE [43.06, -89.26] 06/08/11 18:41 CST 06/08/11 19:02 CST Dout 1/2 mile southwest of the intersect 1.5 miles east-northeast of the intersect were uprooted, a garage was crushe ken tree branches. Scattered uproote age occurred in the Verona area. Ma:	ection of CTH G ction of Intersta d by a fallen tre ed trees and/or ximum winds ir	0 and Sugar River te 39/90 and STF ee, and 3 vehicles broken tree brand this EF1 tornado	Source: NWS Storm Survey Road, and traveled east-northeast to H 12/18. The damage path was sporadic. Is were damaged by fallen trees. Inches were seen along the remainder of Dowere about 95 mph based on DI 27 (TH),
DANE COUNTY 2.7 W VERONA [42.98, -8] This tornado spun up southwest of Verona ababout 3 miles northeast of McFarland about 1 on the south side of Verona, numerous trees Several power lines were pulled down by brothe tornado path. However, most of the dama DOD 3. The actual starting location was 42.9 rards.	9.58], 1.6 WNW HOPE [43.06, -89.26] 06/08/11 18:41 CST 06/08/11 19:02 CST bout 1/2 mile southwest of the intersect 1.5 miles east-northeast of the intersect were uprooted, a garage was crushe ken tree branches. Scattered uproote age occurred in the Verona area. Ma: 18002/-89.58399 and the ending locat	ection of CTH G ction of Intersta d by a fallen tre ed trees and/or ximum winds ir	o and Sugar River te 39/90 and STF ee, and 3 vehicles broken tree brand this EF1 tornado (38/-89.26050. TI	Source: NWS Storm Survey Road, and traveled east-northeast to H 12/18. The damage path was sporadic. Is were damaged by fallen trees. In the seen along the remainder of It were about 95 mph based on DI 27 (TH), The average path width was about 70
	9.58], 1.6 WNW HOPE [43.06, -89.26] 06/08/11 18:41 CST 06/08/11 19:02 CST Dout 1/2 mile southwest of the interset of the interset of the interset of the uniterset of the interset of the uniterset of the uniter	ection of CTH G ction of Intersta d by a fallen tre ed trees and/or ximum winds ir	o and Sugar River tte 39/90 and STF ee, and 3 vehicles broken tree brand this EF1 tornado (38/-89.26050. Ti	Source: NWS Storm Survey Road, and traveled east-northeast to H 12/18. The damage path was sporadic. Is were damaged by fallen trees. In the seen along the remainder of It were about 95 mph based on DI 27 (TH), The average path width was about 70 Hail (1.00 in)
This tornado spun up southwest of Verona abbout 3 miles northeast of McFarland about 1 on the south side of Verona, numerous trees several power lines were pulled down by brothe tornado path. However, most of the dama NOD 3. The actual starting location was 42.9 ards.	9.58], 1.6 WNW HOPE [43.06, -89.26] 06/08/11 18:41 CST 06/08/11 19:02 CST bout 1/2 mile southwest of the intersect 1.5 miles east-northeast of the intersect were uprooted, a garage was crushe ken tree branches. Scattered uproote age occurred in the Verona area. Ma: 18002/-89.58399 and the ending locat	ection of CTH G ction of Intersta d by a fallen tre ed trees and/or ximum winds ir	o and Sugar River te 39/90 and STF ee, and 3 vehicles broken tree brand this EF1 tornado (38/-89.26050. TI	Source: NWS Storm Survey Road, and traveled east-northeast to H 12/18. The damage path was sporadic. Is were damaged by fallen trees. In the seen along the remainder of It were about 95 mph based on DI 27 (TH), The average path width was about 70
DANE COUNTY 2.7 W VERONA [42.98, -8] This tornado spun up southwest of Verona ablibout 3 miles northeast of McFarland about 1 on the south side of Verona, numerous trees several power lines were pulled down by broke tornado path. However, most of the dama DOD 3. The actual starting location was 42.9 pards. FOND DU LAC COUNTY 5.0 NNE ROSEN	9.58], 1.6 WNW HOPE [43.06, -89.26] 06/08/11 18:41 CST 06/08/11 19:02 CST bout 1/2 mile southwest of the intersect 1.5 miles east-northeast of the intersect were uprooted, a garage was crushe ken tree branches. Scattered uproote age occurred in the Verona area. Ma: 08002/-89.58399 and the ending locat DALE [43.87, -88.64] 06/08/11 18:45 CST 06/08/11 18:45 CST	ection of CTH G ction of Intersta d by a fallen tre ed trees and/or ximum winds ir	o and Sugar River and Sugar River as 39/90 and STF see, and 3 vehicles broken tree brand this EF1 tornado 38/-89.26050. Ti	Source: NWS Storm Survey Road, and traveled east-northeast to H 12/18. The damage path was sporadic. Is were damaged by fallen trees. In the swere seen along the remainder of the owere about 95 mph based on DI 27 (TH), The average path width was about 70 Hail (1.00 in) Source: Public
This tornado spun up southwest of Verona abbout 3 miles northeast of McFarland about 1 on the south side of Verona, numerous trees several power lines were pulled down by brothe tornado path. However, most of the dama 20D 3. The actual starting location was 42.9 ards. OND DU LAC COUNTY 5.0 NNE ROSEN	9.58], 1.6 WNW HOPE [43.06, -89.26] 06/08/11 18:41 CST 06/08/11 19:02 CST Dout 1/2 mile southwest of the intersect of the in	ection of CTH G ction of Intersta d by a fallen tre ed trees and/or ximum winds ir	and Sugar River atte 39/90 and STF ate, and 3 vehicles broken tree brand at this EF1 tornado (38/-89.26050. The control of the	Source: NWS Storm Survey Road, and traveled east-northeast to H 12/18. The damage path was sporadic. s were damaged by fallen trees. ches were seen along the remainder of o were about 95 mph based on DI 27 (TH), the average path width was about 70 Hail (1.00 in) Source: Public Hail (1.00 in)
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DANE COUNTY 2.7 W VERONA [42.98, -8] This tornado spun up southwest of Verona ababout 3 miles northeast of McFarland about 1 on the south side of Verona, numerous trees Several power lines were pulled down by brothe tornado path. However, most of the dama DOD 3. The actual starting location was 42.9 rards.	9.58], 1.6 WNW HOPE [43.06, -89.26] 06/08/11 18:41 CST 06/08/11 19:02 CST Dout 1/2 mile southwest of the intersect of the in	ection of CTH G ction of Intersta d by a fallen tre ed trees and/or ximum winds ir	and Sugar River te 39/90 and STFee, and 3 vehicles broken tree brand this EF1 tornado 38/-89.26050. Ti	Source: NWS Storm Survey Road, and traveled east-northeast to H 12/18. The damage path was sporadic. Is were damaged by fallen trees. In the swere seen along the remainder of the owere about 95 mph based on DI 27 (TH), the average path width was about 70 Hail (1.00 in) Source: Public Hail (1.00 in) Source: Trained Spotter
DANE COUNTY 2.7 W VERONA [42.98, -8 This tornado spun up southwest of Verona ababout 3 miles northeast of McFarland about 1 On the south side of Verona, numerous trees Several power lines were pulled down by broke tornado path. However, most of the dama DOD 3. The actual starting location was 42.9 wards. FOND DU LAC COUNTY 5.0 NNE ROSEN DANE COUNTY 5.0 NNE ROSEN	9.58], 1.6 WNW HOPE [43.06, -89.26] 06/08/11 18:41 CST 06/08/11 19:02 CST Dout 1/2 mile southwest of the intersect of the intersect of the intersect of the intersect of the unitersect of the intersect of the i	ection of CTH G ction of Intersta d by a fallen tre ed trees and/or ximum winds ir	and Sugar River tet 39/90 and STFee, and 3 vehicles broken tree brand this EF1 tornado 38/-89.26050. Ti	Source: NWS Storm Survey Road, and traveled east-northeast to H 12/18. The damage path was sporadic. Is were damaged by fallen trees. In the swere seen along the remainder of It were about 95 mph based on DI 27 (TH), In the average path width was about 70 Hail (1.00 in) Source: Public Hail (1.00 in) Source: Trained Spotter
Chis tornado spun up southwest of Verona abbout 3 miles northeast of McFarland about 1 on the south side of Verona, numerous trees several power lines were pulled down by brothe tornado path. However, most of the dama 20D 3. The actual starting location was 42.9 ards. COND DU LAC COUNTY 5.0 NNE ROSEN DANE COUNTY MONONA [43.07, -89.32]	9.58], 1.6 WNW HOPE [43.06, -89.26] 06/08/11 18:41 CST 06/08/11 19:02 CST Dout 1/2 mile southwest of the intersect of the in	ection of CTH G ction of Intersta d by a fallen tre ed trees and/or ximum winds ir	and Sugar River te 39/90 and STFee, and 3 vehicles broken tree brand this EF1 tornado 38/-89.26050. Ti	Source: NWS Storm Survey Road, and traveled east-northeast to H 12/18. The damage path was sporadic. Is were damaged by fallen trees. In the swere seen along the remainder of the owere about 95 mph based on DI 27 (TH), the average path width was about 70 Hail (1.00 in) Source: Public Hail (1.00 in) Source: Trained Spotter
DANE COUNTY 2.7 W VERONA [42.98, -8 This tornado spun up southwest of Verona ababout 3 miles northeast of McFarland about 1 On the south side of Verona, numerous trees Several power lines were pulled down by broke tornado path. However, most of the dama DOD 3. The actual starting location was 42.9 wards. FOND DU LAC COUNTY 5.0 NNE ROSEN DANE COUNTY 5.0 NNE ROSEN	9.58], 1.6 WNW HOPE [43.06, -89.26] 06/08/11 18:41 CST 06/08/11 19:02 CST Dout 1/2 mile southwest of the intersect of the in	ection of CTH G ction of Intersta d by a fallen tre ed trees and/or ximum winds ir	and Sugar River te 39/90 and STFee, and 3 vehicles broken tree brand this EF1 tornado 38/-89.26050. Ti	Source: NWS Storm Survey Road, and traveled east-northeast to H 12/18. The damage path was sporadic. Is were damaged by fallen trees. In the swere seen along the remainder of the owere about 95 mph based on DI 27 (TH), the average path width was about 70 Hail (1.00 in) Source: Public Hail (1.00 in) Source: Trained Spotter
This tornado spun up southwest of Verona abbout 3 miles northeast of McFarland about 1 on the south side of Verona, numerous trees several power lines were pulled down by broke tornado path. However, most of the dama NOD 3. The actual starting location was 42.9 ards. OND DU LAC COUNTY 5.0 NNE ROSEN PANE COUNTY MONONA [43.07, -89.32]	9.58], 1.6 WNW HOPE [43.06, -89.26] 06/08/11 18:41 CST 06/08/11 19:02 CST Dout 1/2 mile southwest of the intersed of the inte	ection of CTH G ction of Intersta d by a fallen tre ed trees and/or ximum winds ir	and Sugar River te 39/90 and STF ee, and 3 vehicles broken tree brand this EF1 tornado (38/-89.26050. The O	Source: NWS Storm Survey Road, and traveled east-northeast to H 12/18. The damage path was sporadic. It is were damaged by fallen trees. It is were seen along the remainder of the owere about 95 mph based on DI 27 (TH), the average path width was about 70 Hail (1.00 in) Source: Public Hail (1.75 in) Source: Law Enforcement

DANE COUNTY --- BELLEVILLE [42.85, -89.53]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/08/11 18:54 CST		0	Thunderstorm Wind (EG 70 kt)
	06/08/11 18:54 CST		0	Source: Trained Spotter
everal large trees were uprooted as the rain ar	nd small hail moved horizontally	/.		
DANE COUNTY 1.0 E VERONA [42.98, -89.5	06/08/11 18:55 CST		0	Hail (1.75 in)
	06/08/11 18:55 CST		0	Source: Law Enforcement
			-	
DANE COUNTY MC FARLAND [43.02, -89.2	3]			
	06/08/11 18:55 CST		0	Thunderstorm Wind (MG 61 kt)
	06/08/11 18:55 CST		0	Source: Trained Spotter
A gust of 70 mph was measured on a home were related to the rear flank downdraft of the superc				
DANE COUNTY MC FARLAND [43.02, -89.26	=		0	Thunderstorm Wind (MC 61 kt)
	06/08/11 18:55 CST 06/08/11 18:55 CST		0	Thunderstorm Wind (MG 61 kt) Source: Trained Spotter
	00/00/11 10:00 001		U	Course. Trained opolier
Several large trees were uprooted by powerful t	nunderstorm winds.			
DANE COUNTY SHOREWOOD HILLS [43.08	·			
	06/08/11 18:56 CST		0	Hail (0.88 in)
	06/08/11 18:56 CST		0	Source: Trained Spotter
DANE COUNTY 2.0 W DOWNTOWN MADIS	 ON [43.07, -89.46]			
	06/08/11 19:00 CST		0	Hail (1.50 in)
	06/08/11 19:00 CST		0	Source: Broadcast Media
GREEN COUNTY NEW GLARUS [42.82, -89.	.63] 06/08/11 19:00 CST		0	Thunderstorm Wind (EG 65 kt)
	06/08/11 19:00 CST 06/08/11 19:05 CST		0	Source: Newspaper
	00,00,11,10,00		· ·	Coulds. Honopape.
Powerful thunderstorm winds, accompanied by		-		
several power lines. in New Glarus, a home's re	oor and a saony are modern act			
· · · · · · · · · · · · · · · · · · ·	, 1			
· · · · · · · · · · · · · · · · · · ·	06/08/11 19:08 CST		0	Thunderstorm Wind (MG 51 kt)
· · · · · · · · · · · · · · · · · · ·	, 1		0	Thunderstorm Wind (MG 51 kt) Source: Trained Spotter
ROCK COUNTY EVANSVILLE [42.78, -89.30	06/08/11 19:08 CST 06/08/11 19:08 CST	n by powerful thur	0	· · · · · · · · · · · · · · · · · · ·
ROCK COUNTY EVANSVILLE [42.78, -89.30 Officials reported up to 40 large trees uprooted,	06/08/11 19:08 CST 06/08/11 19:08 CST and numerous branches broke	n by powerful thur	0	· · · · · · · · · · · · · · · · · · ·
ROCK COUNTY EVANSVILLE [42.78, -89.30 Officials reported up to 40 large trees uprooted,	06/08/11 19:08 CST 06/08/11 19:08 CST and numerous branches broke	n by powerful thur	0 anderstorm winds.	Source: Trained Spotter Thunderstorm Wind (EG 65 kt)
ROCK COUNTY EVANSVILLE [42.78, -89.30 Officials reported up to 40 large trees uprooted,	06/08/11 19:08 CST 06/08/11 19:08 CST and numerous branches broke	n by powerful thur	0 nderstorm winds.	Source: Trained Spotter
ROCK COUNTY EVANSVILLE [42.78, -89.30 Officials reported up to 40 large trees uprooted, GREEN COUNTY NEW GLARUS [42.82, -89 Powerful thunderstorm winds, accompanied by	06/08/11 19:08 CST 06/08/11 19:08 CST and numerous branches broke 06/08/11 19:10 CST 06/08/11 19:15 CST		0 anderstorm winds.	Source: Trained Spotter Thunderstorm Wind (EG 65 kt) Source: Newspaper
Powerful thunderstorm winds, accompanied by several power lines.	06/08/11 19:08 CST 06/08/11 19:08 CST and numerous branches broke 06/08/11 19:10 CST 06/08/11 19:15 CST heavy rains, uprooted several la		0 onderstorm winds. 0 0 0 around Monticello, a	Source: Trained Spotter Thunderstorm Wind (EG 65 kt) Source: Newspaper and broken tree branches snapped
ROCK COUNTY EVANSVILLE [42.78, -89.30 Officials reported up to 40 large trees uprooted,	06/08/11 19:08 CST 06/08/11 19:08 CST and numerous branches broke 06/08/11 19:10 CST 06/08/11 19:15 CST heavy rains, uprooted several la		0 onderstorm winds. 0 0 oaround Monticello, a	Source: Trained Spotter Thunderstorm Wind (EG 65 kt) Source: Newspaper and broken tree branches snapped Thunderstorm Wind (EG 70 kt)
Powerful thunderstorm winds, accompanied by several power lines.	06/08/11 19:08 CST 06/08/11 19:08 CST and numerous branches broke 06/08/11 19:10 CST 06/08/11 19:15 CST heavy rains, uprooted several la		0 onderstorm winds. 0 0 0 around Monticello, a	Source: Trained Spotter Thunderstorm Wind (EG 65 kt) Source: Newspaper and broken tree branches snapped
POWERFUL THURSDAY THE POWER THE POWE	06/08/11 19:08 CST 06/08/11 19:08 CST and numerous branches broke 06/08/11 19:10 CST 06/08/11 19:15 CST heavy rains, uprooted several la 9.09] 06/08/11 19:13 CST 06/08/11 19:13 CST		0 onderstorm winds. 0 0 oaround Monticello, a	Source: Trained Spotter Thunderstorm Wind (EG 65 kt) Source: Newspaper and broken tree branches snapped Thunderstorm Wind (EG 70 kt)
Proverful thunderstorm winds, accompanied by several power lines. DANE COUNTY 3.0 NNW ALBION [42.92, -8 A grain bin was destroyed and and several large.	06/08/11 19:08 CST 06/08/11 19:08 CST and numerous branches broke 1.63] 06/08/11 19:10 CST 06/08/11 19:15 CST 1.64 beavy rains, uprooted several lateral sev		0 onderstorm winds. 0 0 oaround Monticello, a	Source: Trained Spotter Thunderstorm Wind (EG 65 kt) Source: Newspaper and broken tree branches snapped Thunderstorm Wind (EG 70 kt)
Powerful thunderstorm winds, accompanied by several power lines.	06/08/11 19:08 CST 06/08/11 19:08 CST and numerous branches broke 1.63] 06/08/11 19:10 CST 06/08/11 19:15 CST 1.64 beavy rains, uprooted several lateral sev		0 onderstorm winds. 0 0 oaround Monticello, a	Source: Trained Spotter Thunderstorm Wind (EG 65 kt) Source: Newspaper and broken tree branches snapped Thunderstorm Wind (EG 70 kt)

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Powerful thunderstorm winds pushed over Stoughton, the winds knocked over an employer at a 45-degree angle.	_		•	
GREEN COUNTY DAYTON [42.82, -89.	50], ALBANY [42.70, -89.43]			
	06/08/11 19:15 CST		0	Thunderstorm Wind (EG 65 kt)
	06/08/11 19:25 CST		0	Source: Trained Spotter
Dozens of large trees were uprooted by poor to the Albany area. Near the intersection on STH 59 was damaged by the winds. A	of STH 59 and CTH F, a barn, built in	the 1940s, was p	ushed over by the	winds. A hanger at the Albany Airport
DODGE COUNTY FOX LAKE [43.57, -8			_	
	06/08/11 19:16 CST		0	Hail (0.88 in)
	06/08/11 19:16 CST		0	Source: Trained Spotter
DANE COUNTY 2.0 WSW SUN PRAIRI	E [43.1789.24], SUN PRΔIRIF [43	1889.201		
	06/08/11 19:17 CST	, ••••••	0	Thunderstorm Wind (EG 65 kt)
	06/08/11 19:25 CST		0	Source: Trained Spotter
Powerful thunderstorm winds pushed over	several large trees, and a flag pole	was pushed down.		
GREEN COUNTY 2.0 SSW ALBANY [4:	2.6789.451			
	06/08/11 19:20 CST		3K	Lightning
	06/08/11 19:20 CST		0	Source: Newspaper
ightning struck a power transformer which	n then caught fire.			
ROCK COUNTY EVANSVILLE [42.78, -	89.30], MILTON [42.77, -88.95]			
	06/08/11 19:22 CST		0	Thunderstorm Wind (EG 70 kt)
	06/08/11 19:45 CST		0	Source: Trained Spotter
Powerful thunderstorm winds pushed over Evansville to Milton. In the Township of Mi			· · · · · · · · · · · · · · · · · · ·	lines in a 7-mile wide swath from
GREEN COUNTY BRODHEAD [42.62, -	=		0	Thursdays Wind (FC 70 ld)
	06/08/11 19:25 CST		0	Thunderstorm Wind (EG 70 kt)
In the Brodhead area, powerful thundersto	06/08/11 19:25 CST	s and broken brand		Source: Newspaper
in the Broditedd drea, powerful thandersto	mi winds aproofed a few dozen free	o and broken brank	Shed leli on and dh	apped several power lines.
JEFFERSON COUNTY 2.0 NNE CAMBI	RIDGE [43.03, -88.98], JEFFERSON 06/08/11 19:25 CST	[43.00, -88.80]	0	Thunderstorm Wind (EG 65 kt)
	06/08/11 19:30 CST		0	Source: Amateur Radio
Powerful thunderstorm winds raked the are power-lines and power-poles were snappe ts roof and interior ceilings, a business's o east of Cambridge was blown down. A fev	ea from around Cambridge east to the d by broken tree branches. In Jeffer utdoor sign was damaged, and mote	rson, three building el had a roof peel a	s were damaged: ond several implode	ees were uprooted, and a number of one of them had extensive damage to
JEFFERSON COUNTY LAKE MILLS [4				
	06/08/11 19:25 CST		0	Thunderstorm Wind (EG 65 kt)
	06/08/11 19:30 CST		0	Source: Newspaper
Powerful thunderstorm wind gusts toppled	several large trees. One of the tree	s crashed onto a h	ome and resulted i	in minor damage.
JEFFERSON COUNTY 5.0 SW FT ATK	INSON [42.88, -88.92], FT ATKINSO	N [42.93, -88.85]		
	06/08/11 19:30 CST 06/08/11 19:30 CST		0	Thunderstorm Wind (EG 65 kt) Source: Newspaper

moderate damage when a large tree punctured down through the roof onto a bathtub.

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Powerful thunderstorm wind gusts toppled several large trees. One of the trees crashed onto and damaged a 5th wheel camper southwest of Ft. Atkinson. Elsewhere in the Ft. Atkinson area, a roof on a home's 3-season room was ripped off by the powerful winds, and another home received

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
JEFFERSON COUNTY HEBRON [42.93, -88	=			
	06/08/11 19:35 CST		0	Thunderstorm Wind (EG 70 kt)
Powerful thunderstorm winds pushed over seve	06/08/11 19:35 CST		0	Source: NWS Employee
Toward didinasion winds passion over sove	war large trees.			
WALWORTH COUNTY 2.0 W DELAVAN [42	. 63, -88.67] 06/08/11 19:35 CST		0	Thunderstorm Wind (EG 70 kt)
	06/08/11 19:35 CST		0	Source: Amateur Radio
Powerful thunderstorm winds pushed over seve	eral large trees. Roof damage v	was inflicted on sor	me buildings, but th	ne extent is unknown.
GREEN COUNTY MONROE [42.60, -89.63]				
	06/08/11 19:45 CST		0	Thunderstorm Wind (EG 56 kt)
	06/08/11 19:50 CST		0	Source: Emergency Manager
Powerful thunderstorm winds, accompanied by	heavy rains, uprooted several	large trees and bro	ken tree branches	snapped several power lines.
WALWORTH COUNTY LAKE GENEVA [42.0				The dealers West AIO 5110
	06/08/11 19:54 CST		0	Thunderstorm Wind (MG 54 kt)
	06/08/11 19:54 CST		0	Source: Amateur Radio
Powerful thunderstorm winds pushed over seve	eral large trees.			
WALWORTH COUNTY 2.0 N DARIEN [42.63	·			Thursday Love Mind (FO OF LI)
	06/08/11 19:56 CST 06/08/11 19:56 CST		0	Thunderstorm Wind (EG 65 kt) Source: Amateur Radio
Powerful thunderstorm winds pushed over severable ROCK COUNTY 5.0 NE CLINTON [42.62, -8:				
	06/08/11 20:03 CST		0	Thunderstorm Wind (EG 70 kt)
	06/08/11 20:03 CST		0	Source: Trained Spotter
Powerful thunderstorm winds toppled several la	rge trees.			
WAUKESHA COUNTY 1.0 NE MUSKEGO [4				T
	06/08/11 20:10 CST 06/08/11 20:10 CST		0	Thunderstorm Wind (EG 65 kt) Source: Trained Spotter
Powerful thunderstorm winds toppled several la		ng was removed fro		Source. Trained opoder
JEFFERSON COUNTY 3.7 NE OAK HILL [4:	2 97 -88 551			
52 2.13511 55511 1 5.7 NE OAR HILL [4/	06/08/11 20:14 CST		0	Thunderstorm Wind (EG 52 kt)
	06/08/11 20:14 CST		0	Source: NWS Employee
Powerful thunderstorm winds broke numerous I	arge tree branches and toppled	d several large tree	s in the vicinity of t	he Milwaukee/Sullivan WFO.
RACINE COUNTY BURLINGTON [42.67, -88	3.27]			
,	06/08/11 20:20 CST		0	Thunderstorm Wind (EG 56 kt)
	06/08/11 20:20 CST		0	Source: Newspaper
Strong winds knocked large branches out of tre Two roads were blocked by the tree debris.	es and uprooted a couple doze	en large trees. A fe	w power-lines were	e snapped by the broken branches.
MILWAUKEE COUNTY WEST ALLIS [43.00	=			H=i1/4/00 i=)
	06/08/11 20:23 CST		0	Hail (1.00 in)
	06/08/11 20:23 CST		0	Source: Amateur Radio

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RACINE COUNTY --- 4.0 NW STURTEVANT [42.74, -87.96], DOWNTOWN RACINE [42.72, -87.80]

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/08/11 20:30 CST		0	Thunderstorm Wind (EG 56 kt)
	06/08/11 20:45 CST	2	0	Source: Amateur Radio
olown over on Interstate-94 at STH 11 a	nd damage occurred from the Interstate and CTH K, resulting in in the injury of tw Racine, was blown over and damaged. n tree branches.	vo drivers. A 33-fo	oot long sailboat, th	nat was still on land and located on the
MILWAUKEE COUNTY 2.1 WSW WE	EST ALLIS [42.99, -88.01], 1.0 W CUDA	HY [42.95, -87.87]		
	06/08/11 20:31 CST	• /	0	Thunderstorm Wind (MG 57 kt)
	06/08/11 20:45 CST		0	Source: Trained Spotter
Strong winds knocked large branches or Cudahy had a measured wind gust of 66	ut of trees and toppled several large tree	es. Some power-l	ines were snapped	d by tree debris. A trained spotter in
MILWAUKEE COUNTY GREENFIELI	D [42.95, -88.00]			
	06/08/11 20:45 CST		0	Thunderstorm Wind (EG 56 kt)
	06/08/11 20:45 CST		0	Source: Trained Spotter
Strong winds knocked large branches o	ut of trees and uprooted a couple large	trees.		
nto a bowing line that moved due eas	t and created damaging wind gusts of		=	County then congealed area along and south of
nterstate-94. At the height of the ever o 20,000 customers in south-central V	t and created damaging wind gusts of nt, over 27,000 customers had no elect Visconsin lost power.	60 to 80 mph acr	oss much of the a theast Wisconsin,	area along and south of and probably another 15
nterstate-94. At the height of the ever o 20,000 customers in south-central V WI-Z072) KENOSHA	t and created damaging wind gusts of nt, over 27,000 customers had no elect Nisconsin lost power. 06/15/11 06:25 CST 06/15/11 07:00 CST	60 to 80 mph acr	oss much of the atheast Wisconsin, 10K	area along and south of and probably another 15 High Wind (MAX 58 kt)
nterstate-94. At the height of the ever to 20,000 customers in south-central VWI-Z072) KENOSHA Focused warm air advection ahead of Visconsin early in the morning of Jun lamaging wind gusts between 40 and the marine observation site at Kenoshust of 45 mph (39 knots). The gusty w	t and created damaging wind gusts of nt, over 27,000 customers had no elect Nisconsin lost power. 06/15/11 06:25 CST	60 to 80 mph acr tric power in Sou rs and thundersto the departing line nosha County wit wind gust, while t	oss much of the atheast Wisconsin, 10K 0 orms that moved ate of showers and sthin 2 to 3 miles of the Kenosha Muni	Area along and south of and probably another 15 High Wind (MAX 58 kt) Across southern storms, creating f the Lake Michigan shore. cipal Airport recorded a
nterstate-94. At the height of the ever to 20,000 customers in south-central VWI-Z072) KENOSHA Focused warm air advection ahead of Wisconsin early in the morning of Jun damaging wind gusts between 40 and the marine observation site at Kenosh gust of 45 mph (39 knots). The gusty was me roads in Pleasant Prairie.	t and created damaging wind gusts of int, over 27,000 customers had no elect Wisconsin lost power. 06/15/11 06:25 CST 06/15/11 07:00 CST a short wave trough produced shower the 15th. A wake low developed behind 70 mph (35 to 61 knots) in eastern Keina Harbor clocked a 67 mph (58 knot) winds blew down trees and a few power.	60 to 80 mph acr tric power in Sou rs and thundersto the departing line nosha County wit wind gust, while t	oss much of the atheast Wisconsin, 10K 0 orms that moved ate of showers and sthin 2 to 3 miles of the Kenosha Muni	Area along and south of and probably another 15 High Wind (MAX 58 kt) Across southern storms, creating f the Lake Michigan shore. cipal Airport recorded a
nterstate-94. At the height of the ever to 20,000 customers in south-central VWI-Z072) KENOSHA Focused warm air advection ahead of Visconsin early in the morning of Jun lamaging wind gusts between 40 and the marine observation site at Kenosh just of 45 mph (39 knots). The gusty wome roads in Pleasant Prairie.	t and created damaging wind gusts of int, over 27,000 customers had no elect Wisconsin lost power. 06/15/11 06:25 CST 06/15/11 07:00 CST a short wave trough produced shower the 15th. A wake low developed behind 70 mph (35 to 61 knots) in eastern Keina Harbor clocked a 67 mph (58 knot) winds blew down trees and a few power.	60 to 80 mph acr tric power in Sou rs and thundersto the departing line nosha County wit wind gust, while t	oss much of the atheast Wisconsin, 10K 0 orms that moved ate of showers and sthin 2 to 3 miles of the Kenosha Muni	Area along and south of and probably another 15 High Wind (MAX 58 kt) Across southern storms, creating f the Lake Michigan shore. cipal Airport recorded a
nterstate-94. At the height of the ever o 20,000 customers in south-central VWI-Z072) KENOSHA Focused warm air advection ahead of Wisconsin early in the morning of Jun damaging wind gusts between 40 and The marine observation site at Kenosh gust of 45 mph (39 knots). The gusty wome roads in Pleasant Prairie.	t and created damaging wind gusts of int, over 27,000 customers had no elect viscons in lost power. 06/15/11 06:25 CST 06/15/11 07:00 CST a short wave trough produced shower the 15th. A wake low developed behind 70 mph (35 to 61 knots) in eastern Keina Harbor clocked a 67 mph (58 knot) winds blew down trees and a few power centre [43.45, -88.44]	60 to 80 mph acr tric power in Sou rs and thundersto the departing line nosha County wit wind gust, while t	oss much of the atheast Wisconsin, 10K 0 orms that moved ate of showers and sichin 2 to 3 miles of he Kenosha Muni	Area along and south of and probably another 15 High Wind (MAX 58 kt) Across southern storms, creating f the Lake Michigan shore. cipal Airport recorded a felled trees that blocked
Interstate-94. At the height of the ever to 20,000 customers in south-central V (WI-Z072) KENOSHA Focused warm air advection ahead of Wisconsin early in the morning of Jun damaging wind gusts between 40 and The marine observation site at Kenosh gust of 45 mph (39 knots). The gusty was me roads in Pleasant Prairie. DODGE COUNTY 2.5 NE HERMAN COUNTY 2.5 NE HER	t and created damaging wind gusts of int, over 27,000 customers had no elect visconsin lost power. 06/15/11 06:25 CST 06/15/11 07:00 CST a short wave trough produced shower in 15th. A wake low developed behind 70 mph (35 to 61 knots) in eastern Kerna Harbor clocked a 67 mph (58 knot) winds blew down trees and a few power in 15th. A wake low developed behind 15th. A wake low d	rs and thundersto the departing line nosha County with wind gust, while the er lines in the city 2.7 miles northea than one-tenth of d small tree limbs , DOD1 with winds poduce afternoon to produce non-su	oss much of the atheast Wisconsin, 10K 0 orms that moved ate of showers and sthin 2 to 3 miles of he Kenosha Muni of Kenosha, and to 4 mile before dissinapped off, and to 5 of 65 mph. The esthunderstorms ov 3km helicity and hepercell tornadoes	Area along and south of and probably another 15 High Wind (MAX 58 kt) Across southern storms, creating f the Lake Michigan shore. Cipal Airport recorded a felled trees that blocked Tornado (EF0, L: 0.10 mi , W: 20 yd) Source: Trained Spotter er in Dodge County, just north of the ipating. The maximum path width of the all grass flattened in a swirl pattern by exact location was 43.4497/ -88.44074. er portions of southern high 0-3km CAPE were A brief EF0 tornado
Interstate-94. At the height of the ever to 20,000 customers in south-central V (WI-Z072) KENOSHA Focused warm air advection ahead of Wisconsin early in the morning of Jun damaging wind gusts between 40 and The marine observation site at Kenosh gust of 45 mph (39 knots). The gusty was ome roads in Pleasant Prairie. DODGE COUNTY 2.5 NE HERMAN COUNTY 2.5 NE HER	t and created damaging wind gusts of int, over 27,000 customers had no electivisconsin lost power. 06/15/11 06:25 CST 06/15/11 07:00 CST a short wave trough produced shower in 15th. A wake low developed behind in 70 mph (35 to 61 knots) in eastern Kerna Harbor clocked a 67 mph (58 knot) winds blew down trees and a few power winds blew down trees and a few power in 15th 15th 15th 15th 15th 15th 15th 15th	rs and thundersto the departing line nosha County with wind gust, while the er lines in the city 2.7 miles northea than one-tenth of d small tree limbs , DOD1 with winds poduce afternoon to produce non-su	oss much of the atheast Wisconsin, 10K 0 orms that moved ate of showers and sthin 2 to 3 miles of he Kenosha Muni of Kenosha, and to 4 mile before dissinapped off, and to 5 of 65 mph. The esthunderstorms ov 3km helicity and hepercell tornadoes	Area along and south of and probably another 15 High Wind (MAX 58 kt) Across southern storms, creating f the Lake Michigan shore. Cipal Airport recorded a felled trees that blocked Tornado (EF0, L: 0.10 mi , W: 20 yd) Source: Trained Spotter er in Dodge County, just north of the ipating. The maximum path width of the all grass flattened in a swirl pattern by exact location was 43.4497/ -88.44074. er portions of southern high 0-3km CAPE were A brief EF0 tornado
Interstate-94. At the height of the ever to 20,000 customers in south-central VIVI-Z072) KENOSHA Focused warm air advection ahead of Wisconsin early in the morning of Jundamaging wind gusts between 40 and The marine observation site at Kenosh gust of 45 mph (39 knots). The gusty was me roads in Pleasant Prairie. DODGE COUNTY 2.5 NE HERMAN	t and created damaging wind gusts of int, over 27,000 customers had no electivisconsin lost power. 06/15/11 06:25 CST 06/15/11 07:00 CST a short wave trough produced shower in 15th. A wake low developed behind in 70 mph (35 to 61 knots) in eastern Kerna Harbor clocked a 67 mph (58 knot) winds blew down trees and a few power winds blew down trees and a few power in 15th 15th 15th 15th 15th 15th 15th 15th	rs and thundersto the departing line nosha County with wind gust, while the er lines in the city 2.7 miles northea than one-tenth of d small tree limbs , DOD1 with winds poduce afternoon to produce non-su	oss much of the atheast Wisconsin, 10K 0 orms that moved ate of showers and sthin 2 to 3 miles of he Kenosha Muni of Kenosha, and to 4 mile before dissinapped off, and to 5 of 65 mph. The esthunderstorms ov 3km helicity and hepercell tornadoes	Area along and south of and probably another 15 High Wind (MAX 58 kt) Across southern storms, creating f the Lake Michigan shore. Cipal Airport recorded a felled trees that blocked Tornado (EF0, L: 0.10 mi , W: 20 yd) Source: Trained Spotter er in Dodge County, just north of the ipating. The maximum path width of the all grass flattened in a swirl pattern by exact location was 43.4497/ -88.44074. er portions of southern high 0-3km CAPE were . A brief EF0 tornado I grass in a swirl pattern.
Interstate-94. At the height of the ever to 20,000 customers in south-central V WI-Z072) KENOSHA Focused warm air advection ahead of Visconsin early in the morning of Jun Iamaging wind gusts between 40 and The marine observation site at Kenosh gust of 45 mph (39 knots). The gusty wome roads in Pleasant Prairie. DODGE COUNTY 2.5 NE HERMAN	at and created damaging wind gusts of int, over 27,000 customers had no electivisconsin lost power. 06/15/11 06:25 CST 06/15/11 07:00 CST a short wave trough produced shower in 15th. A wake low developed behind 70 mph (35 to 61 knots) in eastern Kerna Harbor clocked a 67 mph (58 knot) winds blew down trees and a few power winds blew down trees and a few power of 15th 15th 15th 15th 15th 15th 15th 15th	rs and thundersto the departing line nosha County with wind gust, while the er lines in the city 2.7 miles northea than one-tenth of d small tree limbs , DOD1 with winds poduce afternoon to produce non-su	oss much of the atheast Wisconsin, 10K 0 orms that moved ate of showers and sthin 2 to 3 miles of he Kenosha Muni of Kenosha, and to 4 mile before dissing snapped off, and to 5 of 65 mph. The exhunderstorms over the sthunderstorms over the standard flattening tal	Area along and south of and probably another 15 High Wind (MAX 58 kt) Across southern storms, creating f the Lake Michigan shore. Cipal Airport recorded a felled trees that blocked Tornado (EF0, L: 0.10 mi , W: 20 yd) Source: Trained Spotter er in Dodge County, just north of the ipating. The maximum path width of the all grass flattened in a swirl pattern by exact location was 43.4497/ -88.44074. er portions of southern high 0-3km CAPE were A brief EF0 tornado

WAUKESHA COUNTY --- 4.0 NW EAGLE [42.92, -88.53], 2.0 NE NORTH LAKE [43.19, -88.34]

06/21/11 13:50 CST

06/21/11 14:13 CST

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Thunderstorm Wind (EG 96 kt)

Source: Law Enforcement

0.28M

0

Date/Time Location Deaths & **Event Type and Details** Property & Injuries Crop Dmg A 2-mile wide swath of damage was caused by a microburst associated with a bowing line of severe thunderstorms that tracked from southwest to northeast across a large portion of Waukesha County. Wind gusts estimated up to between 100 to 110 mph (87 to 96 knots) dropped thousands of trees, damaged homes and barns and blew down power lines that left 10,000 customers without power in Waukesha County. One person was injured by airborne tree debris near the Pewaukee and Delafield town borders. A semi-trailer truck was blown over on Interstate-94 in Waukesha County, while two other high-profile vehicles were nearly blown over by the strong winds, but concrete construction barriers saved the vehicles from being completely blown over. WAUKESHA COUNTY --- 2.0 SE EAGLE [42.86, -88.44] 06/21/11 13:54 CST 0 Thunderstorm Wind (MG 69 kt) 06/21/11 13:54 CST 0 Source: Trained Spotter FOND DU LAC COUNTY --- 4.4 WSW ALTO [43.67, -88.87], 3.7 SSW FAIRWATER [43.70, -88.89] 06/21/11 14:21 CST 30K Tornado (EF1, L: 2.61 mi, W: 150 yd) 06/21/11 14:31 CST 0 Source: NWS Storm Survey This EF1 tornado touched down about 4.4 miles west-southwest of the town of Alto in Fond Du Lac County, on Marshview Road, about one-third of a mile north of Lake Maria Road, and tracked about 2.6 miles to the north-northwest before crossing into Green Lake County, about 3.7 miles south-southwest of Fairwater, at County Road S approximately 1/4 mile east of Schure Road. This tornado exhibited three separate damage tracks within the path, suggesting three separate vortices formed and dissipated during the life span of the tornado. The average path width was 75 yards, with a maximum path width of 105 yards. The tornado blew over trees and flattened a pole shed. The EF1 rating was determined by using DI 21(MBS) DOD5 LB to EXP with estimated winds speeds of 105 mph. The exact starting point was 43.77112/-88.88480 and the exact ending point was 43.78370/-88.88558. GREEN LAKE COUNTY --- 5.0 E MARKESAN [43.72, -88.88] 0 06/21/11 14:28 CST Thunderstorm Wind (EG 50 kt) 06/21/11 14:28 CST Λ Source: Emergency Manager The Green Lake County Emergency Manager reported trees blown down, most likely from the forward flank downdraft from the tornadic thunderstorm that moved through the extreme eastern sections of the county. GREEN LAKE COUNTY --- 4.9 ESE MARKESAN [43.70, -88.89], 3.7 E MARKESAN [43.73, -88.91] 06/21/11 14:31 CST 5K Tornado (EF1, L: 2.16 mi, W: 150 yd) 06/21/11 14:33 CST 0 Source: NWS Storm Survey This EF1 tornado crossed into Green Lake County from Fond Du Lac County, about 4.9 miles east-southeast of Markesan, at County Road S approximately 1/4 mile east of Schure Road, and traveled a little over 2 miles to the north-northwest before dissipating approximately 3.7 miles east of Markesan, about 1200 feet northwest of the intersection of Utley Road and County Trunk Highway Q. The average path width was 75 yards, with a maximum path width of 105 yards. The tornado blew over trees and blew a door and a side panel off a pole shed. Roof shingles were also blown off of several buildings, with one home having minor roof, gutter and awning damage. The EF1 rating was determined by using DI 27(TH) DOD4 LB toward EXP with estimated winds speeds of 100 mph. The exact starting point was 43.78370/-88.88558 and the exact ending point was 43.79798/-88.91194. FOND DU LAC COUNTY --- 2.3 NW FAIRWATER [43.77, -88.88], 2.9 NW FAIRWATER [43.78, -88.89] 06/21/11 14:36 CST 15K Tornado (EF1, L: 0.87 mi, W: 100 yd) 06/21/11 14:38 CST 0 Source: NWS Storm Survey This EF1 tornado touched down approximately 2.3 miles of northwest of Fairwater, about 200 feet southeast of the intersection of Watson Road and Searl Road/County Line Road, and traveled nearly parallel to County Line Road for almost a mile to the north-northwest before crossing County Line Road about 2000 feet north of Carter Road into Green Lake County. The average path width was 60 yards, with a maximum path width of 100 yards. The tornado uprooted trees and tore away a wall and part of the roof of a barn. The EF1 rating was determined by using DI 1(SBO) DOD4 EXP toward UB with estimated winds speeds of 95 mph. The exact starting point was 43.66761/-88.86583 and the exact ending point was 43.70275/-88.88517. GREEN LAKE COUNTY --- 4.5 SE GREEN LAKE [43.78, -88.89], 2.9 SE GREEN LAKE [43.80, -88.91] 06/21/11 14:38 CST 2K Tornado (EF1, L: 1.64 mi, W: 100 yd) 06/21/11 14:40 CST 0 Source: NWS Storm Survey

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O

Funnel Cloud

Source: Emergency Manager

This EF1 tornado entered into Green Lake County from Fond Du Lac County at Searl Road/ County Line Road about 2000 feet north of Carter Road into Green Lake County. The average path width was 60 yards, with a maximum path width of 100 yards. The tornado uprooted trees and tore away metal panels off the roof of a pole shed. The EF1 rating was determined by using DI 21(MBS) DOD 3 EXP with estimated winds speeds of 95 mph. The exact

06/21/11 15:14 CST

06/21/11 15:14 CST

starting point was 43.70275/-88.88517 and the exact ending point was 43.72962/-88.90737.

GREEN LAKE COUNTY --- 5.0 S BERLIN [43.90, -88.93]

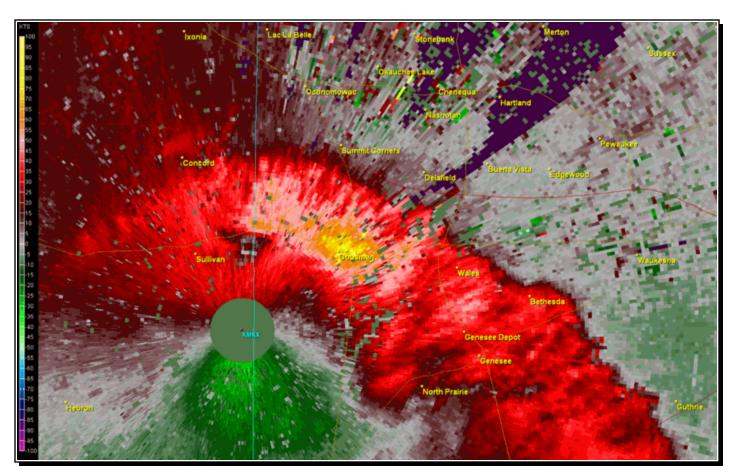
	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
RACINE COUNTY 2.0 E BURLINGTO	ON [42.67, -88.23]			
	06/21/11 18:03 CST		0	Hail (1.25 in)
	06/21/11 18:03 CST		0	Source: Trained Spotter
A trained spotter reported large hail, est	timated to be 1.25 inches in diameter, the	nat fell near a Y.M	.C.A. camp east of	Burlington.
DANE COUNTY 4.0 SSW SUN PRAI	RIE [43.13, -89.23]			
	06/21/11 18:27 CST		0	Hail (1.00 in)
	06/21/11 18:27 CST		0	Source: Trained Spotter
	CY [43.10, -88.13], 2.5 N ELM GROVE	[43.09, -88.07], 0.8	SSE ELM GROVE	[43.04, -88.07], 1.1 SSE BROOKFIELD
[43.06, -88.14]	06/21/11 19:15 CST		5K	Flash Flood (due to Heavy Rain)
	06/21/11 23:00 CST		0	Source: Law Enforcement
	ng area, due to the high water covering NKLIN [42.88, -88.06], 1.0 NE NORTH N			
TRAINCLIN ARE 1 [42.00, *00.01]				
· / ·	06/21/11 19:30 CST		0.50K	Flash Flood (due to Heavy Rain)
	06/21/11 23:00 CST	rms that crossed s	0	Source: Law Enforcement
Heavy downpours of rain, associated whours of June 21st, dropped between 1 covered some roads with 1 to 2 feet of whational Avenue and the Root River Pawalworth County 4.0 SE EAST	06/21/11 23:00 CST ith a line of strong to severe thundersto .5 inches and 2 inches of rain over a 1 l water. One lane of Highway 100 in Frankway in West Allis. TROY [42.74, -88.34] 06/21/11 19:50 CST	hour to a 1 1/2 hou	0 southern Wisconsin or time period. The	Source: Law Enforcement during the afternoon and evening heavy rain caused flash flooding that r, with a vehicle stalled in water on Thunderstorm Wind (EG 52 kt)
Heavy downpours of rain, associated whours of June 21st, dropped between 1 covered some roads with 1 to 2 feet of whational Avenue and the Root River Pa	06/21/11 23:00 CST ith a line of strong to severe thundersto .5 inches and 2 inches of rain over a 1 l water. One lane of Highway 100 in Fran rkway in West Allis. TROY [42.74, -88.34] 06/21/11 19:50 CST 06/21/11 19:50 CST	nour to a 1 1/2 hou Iklin was closed du	0 southern Wisconsin or time period. The ue to the high water	Source: Law Enforcement during the afternoon and evening heavy rain caused flash flooding that r, with a vehicle stalled in water on Thunderstorm Wind (EG 52 kt) Source: Trained Spotter
Heavy downpours of rain, associated we nours of June 21st, dropped between 1 covered some roads with 1 to 2 feet of wational Avenue and the Root River PawaLWORTH COUNTY 4.0 SE EAST	06/21/11 23:00 CST ith a line of strong to severe thundersto .5 inches and 2 inches of rain over a 1 l water. One lane of Highway 100 in Fran rkway in West Allis. TROY [42.74, -88.34] 06/21/11 19:50 CST 06/21/11 19:50 CST anches knocked down by thunderstorm GO [42.87, -88.33], BROOKFIELD [43.07]	nour to a 1 1/2 hou aklin was closed du wind gusts estima	0 southern Wisconsin or time period. The ue to the high water	Source: Law Enforcement during the afternoon and evening heavy rain caused flash flooding that r, with a vehicle stalled in water on Thunderstorm Wind (EG 52 kt) Source: Trained Spotter
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Heavy downpours of rain, associated we nours of June 21st, dropped between 1 covered some roads with 1 to 2 feet of wational Avenue and the Root River PawaLWORTH COUNTY 4.0 SE EAST	06/21/11 23:00 CST ith a line of strong to severe thundersto .5 inches and 2 inches of rain over a 1 l water. One lane of Highway 100 in Fran rkway in West Allis. TROY [42.74, -88.34] 06/21/11 19:50 CST 06/21/11 19:50 CST anches knocked down by thunderstorm GO [42.87, -88.33], BROOKFIELD [43.07]	nour to a 1 1/2 hou aklin was closed du wind gusts estima	outhern Wisconsin rime period. The ue to the high water 0 0 0 ted to be as high a	Source: Law Enforcement In during the afternoon and evening heavy rain caused flash flooding that r, with a vehicle stalled in water on Thunderstorm Wind (EG 52 kt) Source: Trained Spotter s 60 mph (52 knots).
Heavy downpours of rain, associated w hours of June 21st, dropped between 1 covered some roads with 1 to 2 feet of w National Avenue and the Root River Pa	06/21/11 23:00 CST iith a line of strong to severe thundersto .5 inches and 2 inches of rain over a 1 li water. One lane of Highway 100 in Fran irkway in West Allis. TROY [42.74, -88.34] 06/21/11 19:50 CST 06/21/11 19:50 CST anches knocked down by thunderstorm 60 [42.87, -88.33], BROOKFIELD [43.07 06/21/11 19:54 CST 06/21/11 20:13 CST	nour to a 1 1/2 hou aklin was closed du wind gusts estima 7, -88.15]	ocouthern Wisconsinur time period. The use to the high water 0 0 ted to be as high at 0 0	Source: Law Enforcement In during the afternoon and evening heavy rain caused flash flooding that In with a vehicle stalled in water on Thunderstorm Wind (EG 52 kt) Source: Trained Spotter S 60 mph (52 knots). Thunderstorm Wind (EG 61 kt) Source: Trained Spotter
Heavy downpours of rain, associated whours of June 21st, dropped between 1. covered some roads with 1 to 2 feet of v. National Avenue and the Root River Pawalworth County 4.0 SE EAST A trained spotter reported large tree brawaukesha County Mukwonag	06/21/11 23:00 CST iith a line of strong to severe thundersto .5 inches and 2 inches of rain over a 1 li water. One lane of Highway 100 in Franch and the second of the s	nour to a 1 1/2 hou aklin was closed du wind gusts estima 7, -88.15]	osouthern Wisconsinur time period. The ue to the high water 0 0 0 ted to be as high a 0 0 0 wisconsinus with the control of th	Source: Law Enforcement In during the afternoon and evening heavy rain caused flash flooding that Ir, with a vehicle stalled in water on Thunderstorm Wind (EG 52 kt) Source: Trained Spotter Is 60 mph (52 knots). Thunderstorm Wind (EG 61 kt) Source: Trained Spotter trees moved through northeast and
Heavy downpours of rain, associated whours of June 21st, dropped between 1. covered some roads with 1 to 2 feet of v. National Avenue and the Root River Pawalworth County 4.0 SE EAST A trained spotter reported large tree brawaukesha County Mukwonage Part of a line of severe thunderstorms we eastern Waukesha County during the meastern Waukesha County during the meastern was some severe thunderstorms we have the severe	06/21/11 23:00 CST iith a line of strong to severe thundersto .5 inches and 2 inches of rain over a 1 li water. One lane of Highway 100 in Franch and 10 meters of the severe thunderstore in the severe that the severe th	nour to a 1 1/2 hou aklin was closed du wind gusts estima 7, -88.15]	ocouthern Wisconsinur time period. The use to the high water 0 0 ted to be as high at 0 0	Source: Law Enforcement In during the afternoon and evening heavy rain caused flash flooding that In with a vehicle stalled in water on Thunderstorm Wind (EG 52 kt) Source: Trained Spotter S 60 mph (52 knots). Thunderstorm Wind (EG 61 kt) Source: Trained Spotter

Part of a line of severe thunderstorms with damaging wind gusts estimated up to 64 mph (56 knots) that blew down numerous trees and power lines moved through southern Washington County during the middle afternoon of June 21st. The powerful wind gusts blew a tree down on a house and knocked down a barn near Holy Hill.

A warm front lifted into southern Wisconsin ahead of slow-moving low pressure in lowa. Moderate wind shear with 0-6km shear values of 35 to 45 knots and mixed layer (ML) CAPE in the 1500 to 2500J/kg range in place over the region combined with enhanced lift from an upper disturbance rotating through the base of an approaching upper trough to produce strong to severe supercell thunderstorms during the afternoon into the evening of June 21st. The storms produced two EF1 tornadoes in the vicinity of the nearly-stationary warm front that tracked along the border between Fond Du Lac County and Green Lake County. The severe thunderstorms also produced large hail and damaging wind gusts, including a 2-mile wide microburst across sections of Waukesha County that damaged homes, barns and felled thousands of trees and numerous power lines. In addition, the thunderstorms fed off a moisture-rich air mass moving into the region, with precipitable water values around 1.8 inch, that also produced heavy rainfall and flash flooding in portions of Waukesha and Milwaukee counties.

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Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg



This is a velocity image from the Milwaukee/Sullivan WSR 88-D radar as the microburst associated with the bow echo/squall line passed just to the east of the NWS office (KMKX on the image) around 3 pm CDT on June 21st. The bright yellow on the image near Dousman represents 90 to 95 knot winds around 325 feet above ground level. The Civil Townships of Dousman and neighboring Summit were two of the hardest hit locations by the powerful downburst winds.

MILWAUKEE COUNTY --- CUDAHY [42.95, -87.85]

 06/30/11 18:35 CST
 40K
 Thunderstorm Wind (EG 55 kt)

 06/30/11 18:35 CST
 0
 Source: Emergency Manager

The City of Cudahy Emergency Manager reported numerous trees down in the city. One tree severely damaged a mobile home-trailer.

RACINE COUNTY --- 4.0 NW WIND PT [42.82, -87.83], 2.0 E ELMWOOD PARK [42.70, -87.79]

 06/30/11 18:45 CST
 0.10M
 Thunderstorm Wind (MG 71 kt)

 06/30/11 19:00 CST
 0
 Source: Law Enforcement

Law enforcement officials reported numerous trees and power lines down across far eastern Racine County from severe thunderstorm winds that gusted up to 82 mph (71 knots) measured by the ASOS at Racine Batten Airport. A C-130 cargo airplane parked at the airport was spun 40-50 degrees and moved 31 feet by the severe wind gusts. Many large branches were also broken off by the powerful winds, which also blew shingles off of several homes. The thunderstorm outflow winds caused roof damage to a house and garage in the 4800 block of State Highway 31.

KENOSHA COUNTY --- 4.5 E SOMERS [42.65, -87.81], DOWNTOWN KENOSHA [42.58, -87.83]

06/30/11 19:00 CST 1 0.10M Thunderstorm Wind (EG 65 kt) 06/30/11 19:20 CST 1 0 Source: Law Enforcement

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Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg

Law enforcement officials reported numerous trees and power lines down across far eastern Kenosha County from severe thunderstorm winds that gusted up to 75 mph (65 knots) as estimated by a trained spotter. A 31-year-old man riding a motorcycle was killed when a tree blew over on him in the 7600 block of 25th Avenue. A Pleasant Prairie woman injured her hip when she was struck by debris form a shed. Two other residents of the City of Kenosha were injured when they touched live wires brought down by the strong winds. Many large branches were also broken off by the powerful winds, which also damaged several homes. Officials estimate 500 to 800 trees were destroyed or badly damaged by the winds.

Direct Fatalities: M31VE

A large supercell thunderstorm, just offshore over Lake Michigan, produced strong outflow winds that moved into far southeast Milwaukee County, and eastern sections of Racine and Kenosha counties during the evening of June 30th. Wind gusts up to 82 mph (71 knots) felled or caused extensive damage to numerous large trees that damaged homes, garages and vehicles, as well as dropped power lines across the affected areas. A motorcyclist in Kenosha was killed when a tree fell on him. At one point, 26,000 customers were without power in southeast Wisconsin. It took several days to restore power, with all customers back online by 3 pm CDT on Sunday, July 3rd.

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Location Date/Time Deaths & Property & Event Type and Details
Injuries Crop Dmg

LAKE MICHIGAN

NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]

07/01/11 13:30 CST 0 Marine Thunderstorm Wind (MG 39 kt)

07/01/11 15:15 CST 0 Source: C-MAN Station

Several gusts exceeded 33 knots at the McKinley Marina (MLWW3) C-Man station between 1330 LST and 1515 LST. The strongest gust was 39 knots at 1515 LST.

Outflow winds caused by thunderstorms over southern Lake Michigan caused wind gusts exceeding 33 knots for several hours in the near shore waters vicinity from North Point Lighthouse to Wind Point.

PT WASHINGTON TO NORTH PT LT WI COUNTY --- 0.6 N PORT WASHINGTON [43.39, -87.87]

07/11/11 04:30 CST 0 Marine Thunderstorm Wind (MG 38 kt)

07/11/11 04:30 CST 0 Source: C-MAN Station

SHEBOYGAN TO POINT WASHINGTON WI 5NM OFFSHORE TO MID LAKE COUNTY --- 17.0 E PORT WASHINGTON [43.38, -87.53]

07/11/11 04:40 CST 0 Marine Thunderstorm Wind (MG 52 kt)

07/11/11 04:40 CST 0 Source: Mariner

Strong thunderstorm wind gust measured by mariner about 17 miles east of Port Washington.

NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]

07/11/11 07:30 CST 0 Marine Thunderstorm Wind (MG 37 kt)

07/11/11 07:45 CST 0 Source: C-MAN Station

Thunderstorm wind gusts from 34 to 37 knots for 15 minutes.

An approaching cold front brought two rounds of strong thunderstorms to the nearshore waters of Lake Michigan from Sheboygan to Winthrop Harbor Illinois during the morning hours.

WISCONSIN, Southeast

ROCK COUNTY --- 2.7 NNW EVANSVILLE [42.82, -89.32]

07/01/11 02:10 CST 20K Lightning

07/01/11 02:10 CST 0 Source: Newspaper

Lightning struck a farm outside of Evansville in Rock County. Windows were shattered in the garage as well as double-pane windows on the front of the house. The foundation of the garage cracked. A car stored in the garage was declared a total loss, while a motorcycle incurred minor damage. Glass from kitchen cupboards and from pictures knocked off the wall covered kitchen counters and the floor. Circuit breakers in the home were blown out, and the telephone pedestal box outside the home was blown to the other side of the road.

The northern edge of a complex of thunderstorms moving across northern Illinois pushed into far southern Wisconsin during the overnight hours of July 28th. Lightning struck a farm near Evansville, causing extensive damage to the garage and minor damage to the home.

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z062)

IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK

07/01/11 11:00 CST 0 Heat

07/01/11 20:00 CST 0

Gusty southerly winds ahead of a cold front trailing from low pressure tracking across southern Canada drew a hot and humid air mass into southern Wisconsin on July 1st. High temperatures climbed into the middle to upper 90s and combined with dew point temperatures in the lower to middle 70s to produce heat index values between 100 and 110. Thunderstorms over northeast Wisconsin that moved out over Lake Michigan during the morning spread clouds and onshore winds over counties near Lake Michigan. Due to the cooler temperatures and lower dewpoints, the atmosphere near the lake didn't recover to heat advisory levels after the winds shifted back to out of the south to southwest direction.

GREEN LAKE COUNTY --- BERLIN [43.97, -88.93]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
	07/11/11 03:05 CST		0	Thunderstorm Wind (MG 55 kt)	
	07/11/11 03:05 CST		0	Source: Emergency Manager	
The Green Lake County Emergency Managemph (55 knots).	er reported many large tree brancl	nes down in the tov	n of Berlin from th	understorm wind gusts measured at 63	
DODGE COUNTY 5.0 NW FOX LAKE [43.		3.54, -88.86]	_		
	07/11/11 03:25 CST		0	Thunderstorm Wind (EG 56 kt)	
	07/11/11 03:35 CST		0	Source: Emergency Manager	
The Dodge County Emergency Manager rep from northwest to southeast of Fox Lake from	-			orn flattened in a 3-mile wide swath	
DODGE COUNTY KEKOSKEE [43.53, -88	-	5, -88.44]	•	T	
	07/11/11 03:50 CST		0	Thunderstorm Wind (EG 56 kt)	
	07/11/11 03:55 CST		0	Source: Emergency Manager	
The Dodge County Emergency Manager rep thunderstorm wind gusts estimated at 64 mp	•	n down in a 4-mile v	vide swath from Ke	koskee to east of Brownsville from	
FOND DU LAC COUNTY BYRON [43.65,	=	[43.66, -88.28]			
	07/11/11 03:50 CST		5K	Thunderstorm Wind (EG 56 kt)	
	07/11/11 03:55 CST		0	Source: Emergency Manager	
	at 64 mah (FG knota). The deman	in anniurrad in a 2 m	aila wiida awath fra	m Duran to north of Camballanort	
down by thunderstorm wind gusts estimated DODGE COUNTY JUNEAU [43.40, -88.70		e occurred in a 3-n	nile wide swath from	m Byron to north of Cambellsport. Thunderstorm Wind (EG 56 kt)	
	1	e occurred in a 3-n			
DODGE COUNTY JUNEAU [43.40, -88.70 Local newspapers reported trees blown dowled by the punched a hole through the metal roof of a p	07/11/11 03:55 CST 07/11/11 03:55 CST 07/11/11 03:55 CST In in the town of Juneau from thun ark shelter in Juneau.		0	Thunderstorm Wind (EG 56 kt) Source: Newspaper	
DODGE COUNTY JUNEAU [43.40, -88.70 Local newspapers reported trees blown dowledge a hole through the metal roof of a p	07/11/11 03:55 CST 07/11/11 03:55 CST n in the town of Juneau from thun ark shelter in Juneau.		0 0 s estimated at 64 r	Thunderstorm Wind (EG 56 kt) Source: Newspaper mph (56 knots). A large tree limb	
DODGE COUNTY JUNEAU [43.40, -88.70 Local newspapers reported trees blown down punched a hole through the metal roof of a p DODGE COUNTY 1.0 SW HUSTISFORD	07/11/11 03:55 CST 07/11/11 03:55 CST 07/11/11 03:55 CST In in the town of Juneau from thun ark shelter in Juneau. [43.34, -88.62] 07/11/11 05:00 CST 07/11/11 05:00 CST	derstorm wind gust	0 0 s estimated at 64 r 2K 0	Thunderstorm Wind (EG 56 kt) Source: Newspaper nph (56 knots). A large tree limb Lightning Source: Newspaper	
DODGE COUNTY JUNEAU [43.40, -88.70 Local newspapers reported trees blown down punched a hole through the metal roof of a punched a hole through the m	07/11/11 03:55 CST 07/11/11 03:55 CST n in the town of Juneau from thun ark shelter in Juneau. [43.34, -88.62] 07/11/11 05:00 CST 07/11/11 05:00 CST	derstorm wind gust	0 0 s estimated at 64 r 2K 0	Thunderstorm Wind (EG 56 kt) Source: Newspaper nph (56 knots). A large tree limb Lightning Source: Newspaper	
DODGE COUNTY JUNEAU [43.40, -88.70 Local newspapers reported trees blown down punched a hole through the metal roof of a p DODGE COUNTY 1.0 SW HUSTISFORD Newspapers reported a lightning strike that c smoke.	07/11/11 03:55 CST 07/11/11 03:55 CST n in the town of Juneau from thun ark shelter in Juneau. [43.34, -88.62] 07/11/11 05:00 CST 07/11/11 05:00 CST caused a minor fire at a home on S	derstorm wind gust	0 0 s estimated at 64 r 2K 0 ust west of Hustisfo	Thunderstorm Wind (EG 56 kt) Source: Newspaper mph (56 knots). A large tree limb Lightning Source: Newspaper ord. The fire filled the basement with	
DODGE COUNTY JUNEAU [43.40, -88.70 Local newspapers reported trees blown down punched a hole through the metal roof of a punched a hole through the metal roof of a punched a hole through the metal roof of a punched a lightning strike that comoke. LAFAYETTE COUNTY 5.0 SW BELMONT Law enforcement reported damage in a 15-m (65 knots). Downed trees blocked roads and	07/11/11 03:55 CST 07/11/11 03:55 CST 07/11/11 03:55 CST In in the town of Juneau from thun ark shelter in Juneau. [43.34, -88.62] 07/11/11 05:00 CST 07/11/11 05:00 CST caused a minor fire at a home on \$ [42.68, -90.40], WOODFORD [42 07/11/11 05:30 CST 07/11/11 05:30 CST mile wide swath from southwest of fallen power lines caused power	derstorm wind gust State Highway 60, j 2.65, -89.87] Belmont to Woodfoutages in the towr	0 0 s estimated at 64 r 2K 0 ust west of Hustisfe 0.20M 1M ord from thunderste	Thunderstorm Wind (EG 56 kt) Source: Newspaper Inph (56 knots). A large tree limb Lightning Source: Newspaper Ord. The fire filled the basement with Thunderstorm Wind (EG 65 kt) Source: Law Enforcement Orm wind gusts estimated at 75 mph Allel and Darlington. Six homes were	
DODGE COUNTY JUNEAU [43.40, -88.70 Local newspapers reported trees blown down punched a hole through the metal roof of a population of the population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through the metal roof of a population of the punched a hole through through	07/11/11 03:55 CST 07/11/11 03:55 CST 07/11/11 03:55 CST In in the town of Juneau from thun ark shelter in Juneau. [43.34, -88.62] 07/11/11 05:00 CST 07/11/11 05:00 CST caused a minor fire at a home on S [42.68, -90.40], WOODFORD [42 07/11/11 05:10 CST 07/11/11 05:30 CST inile wide swath from southwest of fallen power lines caused power foot barn was flattened on a farm	derstorm wind gust State Highway 60, j 2.65, -89.87] Belmont to Woodfoutages in the town in near Argyle, dama	0 0 s estimated at 64 r 2K 0 ust west of Hustisfe 0.20M 1M ord from thunderste	Thunderstorm Wind (EG 56 kt) Source: Newspaper Inph (56 knots). A large tree limb Lightning Source: Newspaper Ord. The fire filled the basement with Thunderstorm Wind (EG 65 kt) Source: Law Enforcement Orm wind gusts estimated at 75 mph Allel and Darlington. Six homes were	
DODGE COUNTY JUNEAU [43.40, -88.70 Local newspapers reported trees blown down punched a hole through the metal roof of a p DODGE COUNTY 1.0 SW HUSTISFORD Newspapers reported a lightning strike that c smoke.	07/11/11 03:55 CST 07/11/11 03:55 CST 07/11/11 03:55 CST In in the town of Juneau from thun ark shelter in Juneau. [43.34, -88.62] 07/11/11 05:00 CST 07/11/11 05:00 CST caused a minor fire at a home on \$ [42.68, -90.40], WOODFORD [42 07/11/11 05:10 CST 07/11/11 05:30 CST inlie wide swath from southwest of fallen power lines caused power foot barn was flattened on a farm	derstorm wind gust State Highway 60, j 2.65, -89.87] Belmont to Woodfoutages in the town in near Argyle, dama	0 0 s estimated at 64 r 2K 0 ust west of Hustisfe 0.20M 1M ord from thunderste as of Belmont, Argy	Thunderstorm Wind (EG 56 kt) Source: Newspaper Imph (56 knots). A large tree limb Lightning Source: Newspaper Indicate the difference of the second of th	
DODGE COUNTY JUNEAU [43.40, -88.70 Local newspapers reported trees blown down punched a hole through the metal roof of a punched a hole through the metal roof of a punched a hole through the metal roof of a punched a lightning strike that country 1.0 SW HUSTISFORD [1] Newspapers reported a lightning strike that country 5.0 SW BELMONT Law enforcement reported damage in a 15-n (65 knots). Downed trees blocked roads and damaged, and a 100-year-old 38 foot by 100	07/11/11 03:55 CST 07/11/11 03:55 CST 07/11/11 03:55 CST In in the town of Juneau from thun ark shelter in Juneau. [43.34, -88.62] 07/11/11 05:00 CST 07/11/11 05:00 CST caused a minor fire at a home on St 07/11/11 05:10 CST 07/11/11 05:30 CST Inile wide swath from southwest of fallen power lines caused power foot barn was flattened on a farm 18], 4.0 SE HOLLANDALE [42.83 07/11/11 05:35 CST 07/11/11 05:50 CST	derstorm wind gust State Highway 60, j 2.65, -89.87] Belmont to Woodfoutages in the town in near Argyle, dama 3, -89.87]	0 0 0 s estimated at 64 r 2K 0 ust west of Hustisfe 0.20M 1M ord from thunderste as of Belmont, Argy aging a tractor insic	Thunderstorm Wind (EG 56 kt) Source: Newspaper Imph (56 knots). A large tree limb Lightning Source: Newspaper Indicate the difference of the second of th	
DODGE COUNTY JUNEAU [43.40, -88.70 Local newspapers reported trees blown down punched a hole through the metal roof of a population of the population of the punched a hole through the metal roof of a population of the punched a hole through through the punched a hole through through the punched a hole through thro	07/11/11 03:55 CST 07/11/11 03:55 CST 07/11/11 03:55 CST In in the town of Juneau from thun ark shelter in Juneau. [43.34, -88.62] 07/11/11 05:00 CST 07/11/11 05:00 CST caused a minor fire at a home on St 07/11/11 05:10 CST 07/11/11 05:30 CST inlie wide swath from southwest of fallen power lines caused power of foot barn was flattened on a farm [18], 4.0 SE HOLLANDALE [42.83 07/11/11 05:35 CST 07/11/11 05:50 CST a 4-mile wide swath from Mineral for the swath for	derstorm wind gust State Highway 60, j 2.65, -89.87] Belmont to Woodfooutages in the town in near Argyle, dama 3, -89.87]	0 0 0 s estimated at 64 r 2K 0 ust west of Hustisfe 0.20M 1M ord from thunderste as of Belmont, Argy aging a tractor insid 0 0 0 of Hollandale from t	Thunderstorm Wind (EG 56 kt) Source: Newspaper Imph (56 knots). A large tree limb Lightning Source: Newspaper Ind. The fire filled the basement with Thunderstorm Wind (EG 65 kt) Source: Law Enforcement Improvement Indicate the provided of the provi	
DODGE COUNTY JUNEAU [43.40, -88.70 Local newspapers reported trees blown down punched a hole through the metal roof of a punched a hole through through the metal roof of a punched a hole through through through the metal roof of a punched a hole through	07/11/11 03:55 CST 07/11/11 03:55 CST 07/11/11 03:55 CST In in the town of Juneau from thun ark shelter in Juneau. [43.34, -88.62] 07/11/11 05:00 CST 07/11/11 05:00 CST caused a minor fire at a home on St 07/11/11 05:10 CST 07/11/11 05:30 CST inlie wide swath from southwest of fallen power lines caused power foot barn was flattened on a farm [48], 4.0 SE HOLLANDALE [42.83 07/11/11 05:35 CST 07/11/11 05:50 CST	derstorm wind gust State Highway 60, j 2.65, -89.87] Belmont to Woodfooutages in the town in near Argyle, dama 3, -89.87]	0 0 0 s estimated at 64 r 2K 0 ust west of Hustisfe 0.20M 1M ord from thunderste as of Belmont, Argy aging a tractor insic	Thunderstorm Wind (EG 56 kt) Source: Newspaper Imph (56 knots). A large tree limb Lightning Source: Newspaper Indicate the difference of the second of th	

north of Brodhead due to damaging thunderstorm wind gusts estimated at 65 knots (75 mph). Corn crops, valued at \$2.2 million, were also flattened. Ludlow Bar in Monroe lost part of their roof. Wind gusts of 62 mph (54 knots) were measured by the AWOS at Mineral Point Airport at 656 am CDT and by a trained spotter in Brodhead at 658 am CDT.

The Green County Emergency Manager reported trees down; power lines down and 1 home damaged in a 20-mile wide swath from near Jordan Center to

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DANE COUNTY DALEYVILLE [42.92, -89.		l	4016	Thursday August (FO FO II)
	07/11/11 06:00 CST		10K	Thunderstorm Wind (EG 56 kt)
	07/11/11 06:35 CST		0.30M	Source: Emergency Manager
The Dane County Emergency Manager repor damaging thunderstorm wind gusts estimated damage when a tree fell on it.	•			-
ROCK COUNTY 5.0 WNW ORFORDVILLE	[42.66, -89.34], 1.7 SE FAIRFIEL	D [42.61, -88.78]		
	07/11/11 06:00 CST		0.13M	Thunderstorm Wind (EG 65 kt)
	07/11/11 06:35 CST		0.70M	Source: Law Enforcement
Law enforcement officials in Rock County rep Clinton due to damaging thunderstorm wind g downtown Janesville had a bedroom addition Creek, as well as a giant 22-foot, 2,000 pound	usts estimated at 65 knots (75 m crushed when a tree fell on it. Th	ph). Corn crops, v e winds also blew	alued at \$700,000, down a barn on C	were also flattened. A home in reek Road where it crosses Turtle
WAUKESHA COUNTY 1.0 ENE MERTON				
	07/11/11 06:00 CST		1K	Lightning
	07/11/11 06:00 CST		0	Source: Newspaper
According to local newspaper reports, a home	e on Center Oak Road in Merton v	was struck by light	tning, resulting in a	minor fire.
JEFFERSON COUNTY BUSSEYVILLE [42	90, -88.98], 5.0 N PALMYRA [42	.95, -88.60]		
	07/11/11 06:40 CST		0	Thunderstorm Wind (EG 56 kt)
	07/11/11 07:12 CST		0	Source: Law Enforcement
Law enforcement officials reported trees and thunderstorm wind gusts estimated at 56 knot with the state of t	is (64 mph). Corn crops were also		•	, , ,
	07/11/11 06:40 CST		0.10M	Thunderstorm Wind (EG 70 kt)
	07/11/11 06:40 CST		0	Source: Newspaper
Local newspapers reported trees and power I knots (80 mph). The severe wind gusts felled Lake. WALWORTH COUNTY 2.8 NE TIBBET [42]	40 trees and damaged roofs and	gutters on buildin		_
	07/11/11 06:50 CST		0	Source: Law Enforcement
Law enforcement officials reported trees and thunderstorm wind gusts estimated at 60 knot County Highway NN in Elkhorn were also sev structure. The roof of the other shed was lifted down. Officials estimate it will cost \$800,000 to center on the corner of Sterlingworth Drive and	is (69 mph). Corn crops were also erely damaged by the thundersto d from it's foundation, damaging e o repair the sheds. Trees also top	o blown down by the frm gusts.Winds cale electrical utilities at	he damaging winds aused the paneling ttached to it and ad	s. Two county salt storage sheds off of of one shed to collapse into the ljacent buildings before settling back
KENOSHA COUNTY SALEM [42.55, -88.1]				
	07/11/11 06:50 CST		0	Thunderstorm Wind (EG 56 kt)
	07/11/11 06:50 CST		0	Source: Law Enforcement
Law enforcement officials reported trees down	n in the town of Salem due to dan	naging thundersto	rm wind gusts estir	mated at 56 knots (64 mph).
WALWORTH COUNTY 3.0 W LAKE GENE	:V∆ [42 60 _88 491 2 0 E AKE 6	SENEVA 142 EN S	88 391	
WALNOW IN COUNTY U.U W LAKE GENE	07/11/11 06:50 CST		8K	Thunderstorm Wind (EG 56 kt)
	07/44/44 00:55 007		•	0

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Law enforcement officials reported trees down in a 6-mile wide swath from west of Lake Geneva to east of Lake Geneva due to damaging thunderstorm

Source: Law Enforcement

Printed on:

07/11/11 06:55 CST

wind gusts estimated at 56 knots (64 mph). A car was damaged when a tree fell on it.

Location Date	/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WAUKESHA COUNTY 2.5 SW DOUSMAN [42.99, -88.8	=			
	1/11 07:00 CST		0	Thunderstorm Wind (EG 56 kt)
07/1	1/11 07:00 CST		0	Source: Newspaper
Local newspapers reported trees down southwest of Dous was injured when he had to lay down his bike to avoid a depeak wind gust of 54 mph (47 knots).	_	-	-	
KENOSHA COUNTY DOWNTOWN KENOSHA [42.58, 07/1	-87.83] 1/11 07:12 CST		0	Thunderstorm Wind (MG 53 kt)
07/1	1/11 07:12 CST		0	Source: Newspaper
Local newspapers reported a dozen trees down in the city strong wind gusts were responsible for delays on several I			-	
WAUKESHA COUNTY 2.0 SW DOWNTOWN WAUKES	HA [43.00, -88.25], 1/11 07:25 CST	ELM GROVE [43.0	•	Thundarstorm Wind (MC 56 kt)
	1/11 07:25 CST 1/11 07:35 CST		0	Thunderstorm Wind (MG 56 kt) Source: Trained Spotter
VAUKESHA COUNTY HARTLAND [43.10, -88.35]	1/11 07:25 CST		1K	Lightning
	1/11 07:25 CST		0	Source: Newspaper
A pair of mesoscale convective complexes crossed souveakened as it moved eastward through northern sections that caused damage across eastern Green Lake Conved along and south of the I-94 corridor. Embedded videspread damaging wind gusts that downed power like height of the event, WE Energies reported 28,000 cu	ons of South Centra County into Fond Do bow echo structure nes, blew over trees	al and Southeast V u Lac and Dodge o es on radar indicat s, damaged buildin	Visconsin, though counties. The second and portions of the ngs, and flattened	it produced severe wind ond, stronger, complex complex that caused
	7) LAFAYETTE, (W 7/11 11:00 CST		7 I-Z069) ROCK, (W	
07/2	1/11 02:00 CST		0	
Direct Fatalities: F87??, M65PH, M80PH				
Direct Fatalities: F87??, M65PH, M80PH A dome of hot and humid air over the southern and cen 21st. High temperatures climbed into the lower to middl produce heat index values between 100 and 110 for four heat: one each in the couinties of Columbia, Marquette, County received medical treatment for the heat, and 5 p people in other counties that received medical treatmen	e 90s, which combi r straight days. Thr and Sauk. Based o eople each in the c	ined with muggy d ee people were co on news reports, it ounties of Rock, C	ew points in the m nfirmed to have di is estimated that	niddle 70s to lower 80s led due to the excessive about 25 people in Dane
A dome of hot and humid air over the southern and cen 21st. High temperatures climbed into the lower to middl produce heat index values between 100 and 110 for four heat: one each in the couinties of Columbia, Marquette, County received medical treatment for the heat, and 5 p people in other counties that received medical treatment	e 90s, which combined the straight days. The and Sauk. Based of eople each in the could no	ined with muggy of ee people were co on news reports, it ounties of Rock, C t be verified.	ew points in the m nfirmed to have di is estimated that columbia, and Saul	niddle 70s to lower 80s led due to the excessive about 25 people in Dane k. There may have been
A dome of hot and humid air over the southern and cen 21st. High temperatures climbed into the lower to middl produce heat index values between 100 and 110 for four heat: one each in the couinties of Columbia, Marquette, County received medical treatment for the heat, and 5 people in other counties that received medical treatment (WI-Z052) SHEBOYGAN, (WI-Z059) WASHINGTON, (WI-Z052)	e 90s, which combined the straight days. The and Sauk. Based of eople each in the could no	ined with muggy of ee people were co on news reports, it ounties of Rock, C t be verified.	ew points in the m nfirmed to have di is estimated that columbia, and Saul	niddle 70s to lower 80s led due to the excessive about 25 people in Dane k. There may have been
A dome of hot and humid air over the southern and cen 21st. High temperatures climbed into the lower to middl produce heat index values between 100 and 110 for four heat: one each in the couinties of Columbia, Marquette, County received medical treatment for the heat, and 5 p people in other counties that received medical treatment (WI-Z052) SHEBOYGAN, (WI-Z059) WASHINGTON, (WI-Z07/1)	e 90s, which combined the straight days. The sand Sauk. Based of eople each in the country, but this could not see the same same same same same same same sam	ined with muggy of ee people were co on news reports, it ounties of Rock, C t be verified.	ew points in the m nfirmed to have di is estimated that columbia, and Saul	niddle 70s to lower 80s led due to the excessive about 25 people in Dane k. There may have been INE, (WI-Z072) KENOSHA
A dome of hot and humid air over the southern and cen 21st. High temperatures climbed into the lower to middl produce heat index values between 100 and 110 for four heat: one each in the couinties of Columbia, Marquette, County received medical treatment for the heat, and 5 p people in other counties that received medical treatmen (WI-Z052) SHEBOYGAN, (WI-Z059) WASHINGTON, (WI-Z07/12) A dome of hot and humid air over the southern and cen	e 90s, which combined the straight days. The and Sauk. Based of eople each in the country, but this could no combined the straight days. The straight days are straight days and the straight days are straight days.	ined with muggy of ee people were co on news reports, it ounties of Rock, C It be verified.	ew points in the m nfirmed to have di is estimated that columbia, and Saul IA, (WI-Z071) RAC 0 0	niddle 70s to lower 80s led due to the excessive about 25 people in Dane k. There may have been INE, (WI-Z072) KENOSHA Heat
A dome of hot and humid air over the southern and cen 21st. High temperatures climbed into the lower to middl produce heat index values between 100 and 110 for four heat: one each in the couinties of Columbia, Marquette, County received medical treatment for the heat, and 5 p people in other counties that received medical treatment (WI-Z052) SHEBOYGAN, (WI-Z059) WASHINGTON, (WI-Z07/13)	e 90s, which combined the straight days. The and Sauk. Based of eople each in the country, but this could no combined the straight days. The straight days are straight days and the straight days are straight days.	ined with muggy of ee people were co on news reports, it ounties of Rock, C It be verified.	ew points in the m nfirmed to have di is estimated that columbia, and Saul IA, (WI-Z071) RAC 0 0	niddle 70s to lower 80s led due to the excessive about 25 people in Dane k. There may have been INE, (WI-Z072) KENOSHA Heat
A dome of hot and humid air over the southern and cen 21st. High temperatures climbed into the lower to middle produce heat index values between 100 and 110 for four neat: one each in the couinties of Columbia, Marquette, County received medical treatment for the heat, and 5 people in other counties that received medical treatment will-Z052) SHEBOYGAN, (WI-Z059) WASHINGTON, (WI-Z052) SHEBOYGAN, (WI-Z059) WASHINGTON, (WI-Z07/12) A dome of hot and humid air over the southern and cen Wisconsin on different days during the period of July 12	e 90s, which combined the straight days. The and Sauk. Based of eople each in the could not straight the straight the straight that the st	ined with muggy of ee people were co on news reports, it ounties of Rock, C It be verified.	ew points in the m nfirmed to have di is estimated that columbia, and Saul IA, (WI-Z071) RAC 0 0	niddle 70s to lower 80s led due to the excessive about 25 people in Dane k. There may have been INE, (WI-Z072) KENOSHA Heat

07/17/11 22:05 CST

07/17/11 22:05 CST

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Thunderstorm Wind (EG 50 kt)

Source: Law Enforcement

0

0

Location Date/Time Deaths & **Event Type and Details** Property & Injuries Crop Dmg Fond Du Lac County sheriff deputies reported large tree limbs and power lines blown down by damaging thunderstorm winds estimated at 50 knots (58 mph). The remains of a mesoscale convective complex moved into northeastern sections of Southeast Wisconsin. The complex produced damaging thunderstorm winds that broke off large tree limbs and dropped power lines near Fond Du Lac. FOND DU LAC COUNTY --- BRANDON [43.73, -88.77] 07/18/11 18:25 CST 2K Thunderstorm Wind (EG 56 kt) 07/18/11 18:25 CST 0 Source: Law Enforcement Law enforcement officials reported damage to a building in Brandon. The severe thunderstorm gusts blew pieces of sheet metal from the building into the A line of strong to severe thunderstorms moved along a weak frontal boundary that was draped from the west-northwest to east-southeast across central Wisconsin. A severe thunderstorm produced strong wind gusts near Brandon that damaged a building, with pieces of sheet metal blown into the air. GREEN LAKE COUNTY --- PRINCETON [43.85, -89.12], 5.0 E MARKESAN [43.72, -88.88] 0 07/19/11 22:38 CST Thunderstorm Wind (EG 52 kt) n 07/19/11 23:00 CST Source: Emergency Manager Tree branches and power lines were reported blown down in a 5-mile wide swath from Princeton to east of Markesan from thunderstorm wind gusts estimated at 61 mph (52 knots). MARQUETTE COUNTY --- 1.5 NW OXFORD [43.80, -89.59] 07/19/11 22:38 CST 1K Thunderstorm Wind (EG 52 kt) 07/19/11 22:38 CST n Source: Amateur Radio Large tree branches were reported blown down and tents damaged at a Boy Scout camp from thunderstorm wind gusts estimated at 61 mph (52 knots). FOND DU LAC COUNTY --- 2.1 W WAUPUN [43.63, -88.77] 07/19/11 23:10 CST 0 Thunderstorm Wind (EG 52 kt) 07/19/11 23:10 CST 0 Source: Emergency Manager Large tree branches were reported blown down from thunderstorm wind gusts estimated at 61 mph (52 knots) at the intersection of County A and County AW just west of Waupun. DODGE COUNTY --- BROWNSVILLE [43.55, -88.48] 0 Thunderstorm Wind (EG 52 kt) 07/19/11 23:18 CST n 07/19/11 23:18 CST Source: Law Enforcement Large tree branches were reported blown down from thunderstorm wind gusts estimated at 61 mph (52 knots). **DODGE COUNTY --- BEAVER DAM [43.47, -88.83]** 07/19/11 23:23 CST 0 Thunderstorm Wind (EG 52 kt) 07/19/11 23:23 CST 0 Source: Law Enforcement Large tree branches were reported blown down from thunderstorm wind gusts estimated at 61 mph (52 knots) that blocked a road and also blew down other large branches across Beaver Dam. A warm frontal zone, extending southeast from low pressure in the Northern Plains across Minnesota, Wisconsin and into northern Illinois, marked the leading edge of a hot and humid air mass over the Upper Midwest. A low-level jet moving over this front was the impetus for the development of severe thunderstorm clusters with short bowing segments that moved from west central Wisconsin to Southeast Wisconsin late in the evening of July 19th into the early morning of July 20th. The storm clusters produced damaging wind

(WI-Z052) SHEBOYGAN, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z066) MILWAUKEE

07/20/11 10:00 CST 0

07/21/11 02:00 CST 0

County.

A dome of hot and humid air over the southern and central Plains built northward into the Upper Midwest and affected different parts of Wisconsin on different days during the period of July 17th through July 21st. Heat index values reached 100 to 110 in this heat event. In Milwaukee, it is estimated, based on news reports, that 60 people sought treatment for heat-related problems and hundreds called a social services line seeking free air-conditioners. Milwaukee-area organizers and health officials took steps to address the safety of

gusts that felled trees and blew down power lines from Marquette and Green Lake counties through Fond Du Lac County into Dodge

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Heat

fair and festival-goers during and prior to this long-duration, excessive he will be w	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
NI-Z071) RACINE, (WI-Z072) KENOSHA	eat event.		
07/20/11 10:00 CST		0	Heat
07/21/11 14:00 CST		0	
A dome of hot and humid air over the southern and central Plains built no Nisconsin on different days during the period of July 17th through July 2	=	=	-
WI-Z067) LAFAYETTE, (WI-Z068) GREEN			
07/21/11 02:00 CST		0	Heat
07/21/11 09:30 CST		0	
A dome of hot and humid air over the southern and central Plains built no Wisconsin on different days during the period of July 17th through July 2	-	-	
WI-Z069) ROCK, (WI-Z070) WALWORTH			
07/21/11 02:00 CST		0	Heat
07/21/11 12:50 CST		0	
ROCK COUNTY 1.2 WNW BELOIT JCT [42.50, -89.04] 07/22/11 03:00 CST		25K	Lightning Source: Newspaper
07/22/11 03:00 CST		0	Source: Newspaper
caused \$25,000 in damage. NALWORTH COUNTY 0.7 W COMO [42.60, -88.51], 1.9 E LAKE GENEVA	 A LAKE [42.58, -88.4	=	Thursdoortown Wind (FO 50 IA)
		0	Thunderstorm Wind (EG 50 kt) Source: Storm Chaser
07/23/11 00:30 CST			Source: Storm Chaser
07/23/11 00:58 CST		U	course. com chaos.
O7/23/11 00:58 CST A wet microburst from a severe thunderstorm produced wind gusts estimated the north and south shores of Lake Como to the northern shore of Lake Genedock at the Mars Resort on Lake Como was destroyed when a tree fell on the A complex of severe thunderstorms moved west to east across southern hours of July23rd. Strong wind gusts from a wet microburst from one of the second severe thunderstorms.	eva. Trees ended up e dock. Wisconsin and nor the thunderstorms i	mph) that dropped of falling onto 6 hom thern Illinois durin	trees and downed power lines along es, damaging shingles and siding. The g the early morning
O7/23/11 00:58 CST A wet microburst from a severe thunderstorm produced wind gusts estimated the north and south shores of Lake Como to the northern shore of Lake Genedock at the Mars Resort on Lake Como was destroyed when a tree fell on the A complex of severe thunderstorms moved west to east across southern hours of July23rd. Strong wind gusts from a wet microburst from one of thomes and downed power lines in the vicinity of Lake Como and Lake General County 3.0 NNE BEAVER DAM [43.51, -88.81], BEAVER DAM	eva. Trees ended up e dock. Wisconsin and nor the thunderstorms i eneva.	mph) that dropped of alling onto 6 hom thern Illinois durin n Walworth Count	trees and downed power lines along es, damaging shingles and siding. The g the early morning y dropped trees onto
O7/23/11 00:58 CST A wet microburst from a severe thunderstorm produced wind gusts estimated the north and south shores of Lake Como to the northern shore of Lake Gene dock at the Mars Resort on Lake Como was destroyed when a tree fell on the A complex of severe thunderstorms moved west to east across southern hours of July23rd. Strong wind gusts from a wet microburst from one of thomes and downed power lines in the vicinity of Lake Como and Lake General Dodge County 3.0 NNE BEAVER DAM [43.51, -88.81], BEAVER DAM [07/23/11 20:25 CST]	eva. Trees ended up e dock. Wisconsin and nor the thunderstorms i eneva.	mph) that dropped falling onto 6 hom thern Illinois durin n Walworth Count	trees and downed power lines along es, damaging shingles and siding. The g the early morning y dropped trees onto Hail (1.00 in)
O7/23/11 00:58 CST A wet microburst from a severe thunderstorm produced wind gusts estimated the north and south shores of Lake Como to the northern shore of Lake Genetock at the Mars Resort on Lake Como was destroyed when a tree fell on the A complex of severe thunderstorms moved west to east across southern nours of July23rd. Strong wind gusts from a wet microburst from one of the nomes and downed power lines in the vicinity of Lake Como and Lake General County 3.0 NNE BEAVER DAM [43.51, -88.81], BEAVER DAM	eva. Trees ended up e dock. Wisconsin and nor the thunderstorms i eneva.	mph) that dropped of alling onto 6 hom thern Illinois durin n Walworth Count	trees and downed power lines along es, damaging shingles and siding. The g the early morning y dropped trees onto
A wet microburst from a severe thunderstorm produced wind gusts estimated the north and south shores of Lake Como to the northern shore of Lake General cock at the Mars Resort on Lake Como was destroyed when a tree fell on the A complex of severe thunderstorms moved west to east across southern nours of July23rd. Strong wind gusts from a wet microburst from one of the nomes and downed power lines in the vicinity of Lake Como and Lake General Code County 3.0 NNE BEAVER DAM [43.51, -88.81], BEAVER DAM 07/23/11 20:25 CST 07/23/11 20:33 CST	eva. Trees ended up e dock. Wisconsin and nor the thunderstorms in eneva. [43.47, -88.83]	mph) that dropped of falling onto 6 hom thern Illinois durin n Walworth Count 0 0	trees and downed power lines along es, damaging shingles and siding. The g the early morning y dropped trees onto Hail (1.00 in) Source: Law Enforcement
A wet microburst from a severe thunderstorm produced wind gusts estimated the north and south shores of Lake Como to the northern shore of Lake Gene dock at the Mars Resort on Lake Como was destroyed when a tree fell on the A complex of severe thunderstorms moved west to east across southern hours of July23rd. Strong wind gusts from a wet microburst from one of thomes and downed power lines in the vicinity of Lake Como and Lake Gene DODGE COUNTY 3.0 NNE BEAVER DAM [43.51, -88.81], BEAVER DAM 07/23/11 20:25 CST 07/23/11 20:33 CST A thunderstorm, part of a line of scattered thunderstorms moving souther levels in central Dodge County. The storm produced large hail near Beaver DANE COUNTY 0.1 ENE BLACK EARTH [43.13, -89.75]	eva. Trees ended up e dock. Wisconsin and nor the thunderstorms in eneva. [43.47, -88.83]	mph) that dropped of falling onto 6 home thern Illinois durin n Walworth Count	trees and downed power lines along es, damaging shingles and siding. The g the early morning y dropped trees onto Hail (1.00 in) Source: Law Enforcement ngthened to severe
A wet microburst from a severe thunderstorm produced wind gusts estimated the north and south shores of Lake Como to the northern shore of Lake General dock at the Mars Resort on Lake Como was destroyed when a tree fell on the A complex of severe thunderstorms moved west to east across southern nours of July23rd. Strong wind gusts from a wet microburst from one of the nomes and downed power lines in the vicinity of Lake Como and Lake General Dodge County 3.0 NNE BEAVER DAM [43.51, -88.81], BEAVER DAM 07/23/11 20:25 CST 07/23/11 20:33 CST A thunderstorm, part of a line of scattered thunderstorms moving souther evels in central Dodge County. The storm produced large hail near Beaver DANE COUNTY 0.1 ENE BLACK EARTH [43.13, -89.75]	eva. Trees ended up e dock. Wisconsin and nor the thunderstorms in eneva. [43.47, -88.83]	mph) that dropped falling onto 6 hom thern Illinois durin Nalworth Count 0 0 0 al Wisconsin, street	trees and downed power lines along es, damaging shingles and siding. The g the early morning y dropped trees onto Hail (1.00 in) Source: Law Enforcement egthened to severe Lightning
A wet microburst from a severe thunderstorm produced wind gusts estimated the north and south shores of Lake Como to the northern shore of Lake Gene dock at the Mars Resort on Lake Como was destroyed when a tree fell on the A complex of severe thunderstorms moved west to east across southern hours of July23rd. Strong wind gusts from a wet microburst from one of thomes and downed power lines in the vicinity of Lake Como and Lake Gene DODGE COUNTY 3.0 NNE BEAVER DAM [43.51, -88.81], BEAVER DAM 07/23/11 20:25 CST 07/23/11 20:33 CST A thunderstorm, part of a line of scattered thunderstorms moving souther levels in central Dodge County. The storm produced large hail near Beaver DANE COUNTY 0.1 ENE BLACK EARTH [43.13, -89.75]	eva. Trees ended up e dock. Wisconsin and nor the thunderstorms in eneva. [43.47, -88.83]	mph) that dropped of falling onto 6 home thern Illinois durin n Walworth Count	trees and downed power lines along es, damaging shingles and siding. The g the early morning y dropped trees onto Hail (1.00 in) Source: Law Enforcement ngthened to severe
A wet microburst from a severe thunderstorm produced wind gusts estimated the north and south shores of Lake Como to the northern shore of Lake Gene dock at the Mars Resort on Lake Como was destroyed when a tree fell on the A complex of severe thunderstorms moved west to east across southern hours of July23rd. Strong wind gusts from a wet microburst from one of the homes and downed power lines in the vicinity of Lake Como and Lake Gene DODGE COUNTY 3.0 NNE BEAVER DAM [43.51, -88.81], BEAVER DAM 07/23/11 20:25 CST 07/23/11 20:33 CST A thunderstorm, part of a line of scattered thunderstorms moving souther levels in central Dodge County. The storm produced large hail near Beaver DANE COUNTY 0.1 ENE BLACK EARTH [43.13, -89.75] 07/27/11 04:05 CST	eva. Trees ended up e dock. Wisconsin and nor the thunderstorms in eneva. [43.47, -88.83] ast from east-central er Dam.	mph) that dropped of falling onto 6 home thern Illinois durin n Walworth Count 0 0 0 al Wisconsin, stren	trees and downed power lines along es, damaging shingles and siding. The g the early morning y dropped trees onto Hail (1.00 in) Source: Law Enforcement ngthened to severe Lightning Source: Newspaper
A wet microburst from a severe thunderstorm produced wind gusts estimated the north and south shores of Lake Como to the northern shore of Lake General dock at the Mars Resort on Lake Como was destroyed when a tree fell on the A complex of severe thunderstorms moved west to east across southern nours of July23rd. Strong wind gusts from a wet microburst from one of the nomes and downed power lines in the vicinity of Lake Como and Lake General Dodge County 3.0 NNE BEAVER DAM [43.51, -88.81], BEAVER DAM 07/23/11 20:25 CST 07/23/11 20:33 CST A thunderstorm, part of a line of scattered thunderstorms moving souther evels in central Dodge County. The storm produced large hail near Beaver DANE COUNTY 0.1 ENE BLACK EARTH [43.13, -89.75] 07/27/11 04:05 CST 07/27/11 04:05 CST	eva. Trees ended up e dock. Wisconsin and nor the thunderstorms in eneva. [43.47, -88.83] ast from east-central er Dam.	mph) that dropped of falling onto 6 home thern Illinois durin n Walworth Count 0 0 0 al Wisconsin, stren	trees and downed power lines along es, damaging shingles and siding. The g the early morning y dropped trees onto Hail (1.00 in) Source: Law Enforcement ngthened to severe Lightning Source: Newspaper

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0

Source: Newspaper

07/27/11 12:00 CST

A home on North Beechwood Drive in Mequon was struck by lightning and the chimney caught fire. The home suffered smoke damage.

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
ROCK COUNTY 9.2 NNE CHARLIE	E BLUFF [42.95, -88.88]				
	07/27/11 20:04 CST		3K	Lightning	
	07/27/11 20:04 CST		0	Source: Newspaper	
A home on North Monarch Lane in the	e Town of Koshkonong was struck by ligh	ntning and caught	fire. The home suffe	ered smoke damage.	
ROCK COUNTY 8.1 N LIMA CENT	ER [42.94, -88.85]				
	07/27/11 20:05 CST		2K	Lightning	
	07/27/11 20:05 CST		0	Source: Newspaper	
OZAUKEE COUNTY 0.9 WNW THI	ENSVILLE [43.23, -88.00] 07/27/11 21:00 CST		5K	Lightning	
	07/27/11 21:00 CST		0	Source: Newspaper	
	07/27/11 21:00 631		U	Source: Newspaper	
A home on North Springdale Court in OZAUKEE COUNTY 1.8 NE FREIS	Mequon was struck by lightning and caug	ght fire. The home	suffered water and	smoke damage.	
OZAUREE COUNTY 1.0 NE FREIS	07/27/11 21:00 CST		2K	Lightning	
	07/27/11 21:00 CST		0	Source: Newspaper	
Several rounds of thunderstorms cr Lightning from the morning storms s struck by lightning from storms in th	equon was struck by lightning and the ga ossed southern Wisconsin, from early i struck a home in Dane County in Black he afternoon and evening. Lightning als neavy rains that caused a mud slide tha	in the day through Earth, while hom so struck homes	n the mid to late ev es in Mequon in O in Fort Atkinson in	ening hours of July 27th. zaukee County were Rock County from	

0

Wind gusts up to 40 mph (35 knots) accompanied a gust front through Southeast Wisconsin. The gusty winds snapped the tether holding a hot-air balloon

A gust front generated by strong thunderstorms in east central Wisconsin raced southeast at 55 mph across northern sections of South Central and Southeast Wisconsin during the late afternoon hours of July 30th. Winds of 30 to 40 mph were recorded behind the gust front. Five people were injured in a hot-air balloon incident when the gusty winds rolled the balloon along the ground.

causing it to roll along the ground. A passenger on the balloon suffered minor injuries, while 4 spectators on the ground were also injured.

07/30/11 16:55 CST

07/30/11 17:00 CST

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Thunderstorm Wind (EG 35 kt)

Source: Newspaper

Deaths &

Property &

Event Type and Details

Date/Time

Location

	Injuries	Crop Dmg	·
AKE MICHIGAN			
WIND PT LT WI TO WINTHROP HBR IL COUNTY 1.2 ENE KENOSHA [42.59, 08/13/11 11:10 CST	, -87.81]	0	Marine Thunderstorm Wind (MG 35 kt)
08/13/11 11:10 CST		0	Source: C-MAN Station
A strong thunderstorm affected the nearshore waters of Lake Michigan south	of Wind Point		
4 strong thanderstorm anested the nearshore waters of Lake mionigan south	TOT WING TOME	ana producea siro	ng manacistonii winas.
WIND PT LT WI TO WINTHROP HBR IL COUNTY 1.2 ENE KENOSHA [42.59,	, -87.81]		
08/20/11 09:10 CST		0	Marine Thunderstorm Wind (MG 44 kt)
08/20/11 09:10 CST		0	Source: C-MAN Station
A severe thunderstorm affected the near shore waters from Wind Point to Win	nthrop Harbor II	liois during the lat	e morning.
WISCONSIN, Southeast			
ROCK COUNTY DOWNTOWN JANESVILLE [42.68, -89.02], 2.0 E DOWNTOW	WN JANESVILLI	E [42.68, -88.98]	
08/02/11 16:05 CST		0	Hail (2.25 in)
08/02/11 16:07 CST		0	Source: Public
The father of a trained spotter reported a severe thunderstorm that produced 2.2d downtown Janesville.	25 inch hail as it r	noved east-southe	ast along State Highway 11 from
WALWORTH COUNTY 0.4 S DELAVAN ARPT [42.62, -88.60]			
08/02/11 16:30 CST		0	Thunderstorm Wind (EG 56 kt)
08/02/11 16:30 CST		0	Source: Law Enforcement
Police officers reported trees blown down along the northeast side of Delavan La dozen trees were blown over on the Lake Lawn Resort property in Delavan in Wathe summer. WALWORTH COUNTY WILLIAMS BAY [42.58, -88.53]	-	-	
08/02/11 16:50 CST		0	Thunderstorm Wind (EG 56 kt)
08/02/11 16:50 CST		0	Source: Newspaper
Powerful thunderstorm winds toppled about a dozen trees in the Kishwauketoe N that 1000 volunteer hours and \$6000 would be needed to clean up the tree debri the thunderstorm winds. Several trees were knocked over by the winds within the Monetary damage amounts from the Village were not available. RACINE COUNTY 3.0 WNW DOWNTOWN RACINE [42.74, -87.85] 08/02/11 16:58 CST	is over a span of	about 6 weeks. The	his clean-up cost is indirectly related to
08/02/11 16:58 CST		0	Source: Amateur Radio
An amateur radio operator reported trees, tree limbs and power lines blown down estimated at 65 mph (56 knots). The downed trees and power lines blocked the r		t of downtown Raci	ne by thunderstorm wind gusts
KENOSHA COUNTY TWIN LAKES [42.53, -88.25]			
08/02/11 17:00 CST		0	Thunderstorm Wind (EG 50 kt)
08/02/11 17:00 CST		0	Source: Law Enforcement
Police officers reported trees, tree limbs and power lines blown down in Twin Lakat 58 mph (50 knots).	kes in southwest	Kenosha County b	by thunderstorm wind gusts estimated
KENOSHA COUNTY 2.0 NW PLEASANT PRAIRIE [42.57, -87.96]			
08/02/11 17:10 CST		0	Funnel Cloud
08/02/11 17:10 CST		0	Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
KENOSHA COUNTY 3.0 SSE PLEASANT PRA	IRIE [42.51, -87.91]			
	08/02/11 17:18 CST		0	Thunderstorm Wind (EG 55 kt)
	08/02/11 17:18 CST		0	Source: Emergency Manager

The Kenosha County Emergency Manager reported trees and tree limbs blown down near Pleasant Prairie in far southeast Kenosha County by thunderstorm wind gusts estimated at 63 mph (55 knots). A semi-trailer was also blown over by the damaging wind gusts.

A broken line of strong to severe thunderstorms formed along and ahead of a cold front...with lift further enhanced by a short wave passing through the region. Southern Wisconsin was in a strongly unstable air mass ahead of the front, with temperatures in the lower 90s and dew points in the upper 70s to around 80 degrees F. Mixed Layer CAPE values reached 3000 to 4000 J/Kg, and when combined with deep layer shear of 30 to 40 knots, set up conditions favorable for organized storm modes, including supercells and bowing segments. The resulting severe thunderstorms produced large hail and damaging wind gusts across portions of Rock County and the southern-most counties of Southeast Wisconsin. Up to 11,600 We Energies customers were without power in Racine and Kenosha Counties alone at the height of the storms.

DANE COUNTY 1.2 N BLOOMING GROVE [43.07, -89.37], 0.9 ENE BLOOMING GROV	VE [43.05, -89.35]	
08/08/11 18:13 CST	0	Tornado (EF0, L: 1.21 mi , W: 20 yd)
08/08/11 18:22 CST	0	Source: Law Enforcement

Law enforcement officials, as well as many members of the general public, reported a tornado that formed and stayed over Lake Monona, about 1 mile east of Law Park in the City of Madison. The tornado tracked south, then southeast, over the lake before dissipating west of Squaw Bay, about 1/4 mile north of Waunona Park. No damage was reported. The tornado kicked up water spray, estimated about 20 feet wide at the surface of the water expanding to 40 feet wide about 40 feet above the water. Many public reports of the tornado/waterspout came into local law enforcement, along with photos and video clips of the vortex from a variety of locations around the lake. The associated condensation funnel never developed more than half-way down to the water surface. Though actually a waterspout, it is being termed a tornado in the official Storm Data report due to National Weather Service rules that limit waterspout reports to bodies of water with a designated marine zone. Lake Monona does not have an assigned marine zone number. The exact starting point was Lat 43.0522 and Lon -89.35588, the mid-point was Lat 43.05864 and Lon -89.36147, and the end point was Lat 43.05263 and Lon -89.35266. The average path width was 15 yards. This tornado-waterspout had estimated wind speeds of 30 to 40 mph based on eyewitness reports. This value is below the minimum wind speed of an EF-0 tornado which is 65 mph in the current EF-Scale.

An unusual tornado event occurred during the early evening hours of August 8th. A vigorous short wave moved across the region in the early evening hours. While deep layer wind shear was weak, there was enough instability, with CAPE values around 700 J/Kg, to produce strong enough updrafts to ingest low-level vorticity and stretch it to produce non-supercell tornadoes (land-spout variety). A weak EF0 tornado formed as a shower moved over a weak, west to east orientated low-level atmospheric boundary over Lake Monona in Madison, southeast of the State Capitol.

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Location Date/Time Deaths & Property & Event Type and Details



The map graphic shows the path of the August 8th tornado/waterspout over Lake Monona based on a number of reports from various locations around, and on the lake. The picture was taken by Steve Brown of Madison from the northeast corner of Lake Monona, looking to the southwest.

 08/12/11 18:10 CST
 0
 Thunderstorm Wind (EG 50 kt)

 08/12/11 18:30 CST
 0
 Source: Trained Spotter

A trained spotter reported trees and power lines blown down by thunderstorm wind gusts estimated at 58 mph (50 knots) in an 8-mile wide swath, running west to east near State Highway 33, from north of Iron Ridge to south-southeast of Theresa.

WASHINGTON COUNTY --- 3.0 W JACKSON [43.32, -88.23]

08/12/11 18:29 CST 0 Funnel Cloud

08/12/11 18:29 CST 0 Source: COOP Observer

WASHINGTON COUNTY --- 2.0 N SLINGER [43.36, -88.28], 2.0 NE JACKSON [43.34, -88.14]

08/12/11 18:50 CST 0 Thunderstorm Wind (EG 50 kt)

08/12/11 19:00 CST 0 Source: Public

Public reports were received of trees and power lines blown down by thunderstorm wind gusts estimated at 58 mph (50 knots) in an 5-mile wide swath from north of Slinger to northeast of Jackson.

WASHINGTON COUNTY --- 4.0 E JACKSON [43.32, -88.09]

08/12/11 18:53 CST 0 Funnel Cloud

08/12/11 18:53 CST 0 Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
strong to severe thunderstorm marginal, with CAPE values just	to southern Wisconsin ahead of an advan- s across a small portion of Southeast Wis- st under 1000 J/Kg, but sufficient when co	consin during the ev	vening hours of Au	ugust 12th. Instability was
with damaging winds and a co ROCK COUNTY 1.5 NE NEW				
NOON GOON I I.S NE NEN	08/20/11 07:07 CST		0	Hail (0.75 in)
	08/20/11 07:07 CST		0	Source: COOP Observer
ROCK COUNTY 1.0 SSE NE	WARK [42.54, -89.22]			
	08/20/11 07:10 CST		0	Hail (1.25 in)
	08/20/11 07:10 CST		0	Source: Trained Spotter
	ty advection ahead of a short wave trough Nisconsin during the morning hours of Au lewark.			•
ROCK COUNTY BELOIT [42	.52, -89.03]			
	08/23/11 07:10 CST		1K	Lightning

Lightning struck an iron gate at the Pierce Distribution facility at 601 Third St. in Beloit around 8 am on August 23rd. The electrical charge from the lightning strike traveled to two nearby electrical panels, producing sparks that caused a minor fire. Minimal damage and no injuries were reported by the Beloit Fire Department.

A line of thunderstorms crossing southern Wisconsin during the morning hours of August 23rd produced numerous cloud-to-ground lightning strikes. Lightning struck a business in Beloit, in Rock County that started a small electrical fire. The fire was quickly put out with minimal damage by the Beloit Fire Department.

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Date/Time Deaths & Property & **Event Type and Details** Location Injuries Crop Dmg **LAKE MICHIGAN** SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 1.9 N SHEBOYGAN [43.78, -87.72] 09/02/11 09:00 CST O Marine Thunderstorm Wind (MG 46 kt) 09/02/11 09:00 CST 0 Source: Mesonet Thunderstorm wind gust to 53 mph at Sheboygan North High School. A line of severe thunderstorms moved from east central Wisconsin over the near shore waters of Lake Michigan during the morning hours. These thunderstorms caused damaging thunderstorm wind gusts. WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81] 0 09/03/11 05:00 CST Marine Thunderstorm Wind (MG 35 kt) 09/03/11 05:00 CST 0 Source: C-MAN Station Strong thunderstorms affected portions of the Lake Michigan near shore waters off the southeast Wisconsin coast during the early morning hours of September 3rd. These thunderstorms caused severe marine wind gusts. NORTH PT LT TO WIND PT WI COUNTY --- 1.8 NNE CUDAHY [42.97, -87.84], 3.2 N CUDAHY [43.00, -87.85] 09/24/11 08:45 CST Waterspout 09/24/11 08:55 CST 0 Source: Public This was the first of five waterspouts that developed just southeast of Milwaukee Harbor. NORTH PT LT TO WIND PT WI COUNTY --- 2.6 NNE CUDAHY [42.99, -87.83], 5.2 N CUDAHY [43.03, -87.85] 09/24/11 09:00 CST Waterspout 09/24/11 09:20 CST O Source: Public This was the second of five waterspouts observed just southeast of Milwaukee Harbor. NORTH PT LT TO WIND PT WI COUNTY --- 2.9 N CUDAHY [42.99, -87.85], 5.1 N CUDAHY [43.02, -87.86] 09/24/11 09:02 CST 0 Waterspout 09/24/11 09:23 CST 0 Source: Coast Guard This was the third in a series of five waterspouts observed in Milwaukee Bay. Observed by commodore of Milwaukee Yacht Club. NORTH PT LT TO WIND PT WI COUNTY --- 4.3 N CUDAHY [43.01, -87.86], 4.5 SE NORTH POINT LTHOUSE [43.03, -87.87] 09/24/11 09:30 CST 0 Waterspout 09/24/11 09:40 CST 0 Source: Coast Guard This was the fourth in a series of five waterspouts observed in Milwaukee Bay that morning. This waterspout was observed by multiple people at the Milwaukee Yacht Club as well as Coast Guard personnel on ship. NORTH PT LT TO WIND PT WI COUNTY --- 4.9 SE NORTH POINT LTHOUSE [43.03, -87.86], 4.0 SE NORTH POINT LTHOUSE [43.04, -87.87] 09/24/11 09:40 CST 0 Waterspout 09/24/11 09:45 CST 0 Source: Public This was the last and furthest north in a series of five waterspouts observed in Milwaukee Bay that morning. This waterspout was observed by multiple people at the Milwaukee Yacht Club. WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 4.4 ESE KENOSHA [42.56, -87.75], 4.1 E KENOSHA [42.58, -87.75] 09/24/11 14:12 CST 0 Waterspout 09/24/11 14:17 CST 0 Source: Trained Spotter One of two waterspouts that developed just east of the Kenosha lake shore, caused by very unstable conditions in the low levels of the atmosphere over Lake Michigan and weak low level convergent boundaries caused by nearby showers.

WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 2.3 E KENOSHA [42.59, -87.79], 1.4 ENE KENOSHA [42.59, -87.80] 09/24/11 14:22 CST

09/24/11 14:36 CST

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Waterspout

Source: Emergency Manager

0

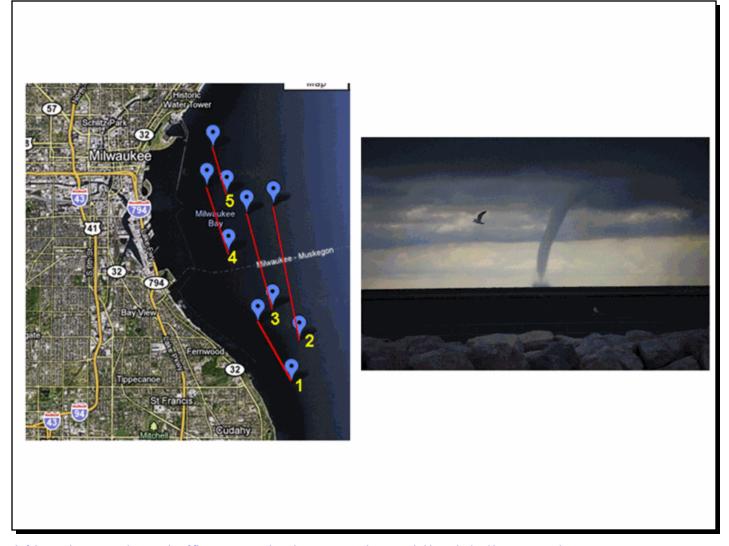
0

Location Date/Time Deaths & Property & Event Type and Details

Injuries Crop Dmg

One of two waterspouts that developed just east of the Kenosha lake shore, caused by very unstable conditions in the low levels of the atmosphere over Lake Michigan and weak low level convergent boundaries caused by nearby showers.

On September 24th, 2011 an unseasonably cold air mass flowed over the warm waters of Lake Michigan creating very unstable conditions in the low levels of the atmosphere. The lake surface temperature was estimated to be in the lower to middle 60s F. Meanwhile, the ambient air around 4000 feet was estimated to be 40 degrees F creating very unstable conditions over the low levels of Lake Michigan. Updrafts from nearby showers and thunderstorms resulted in convergent boundaries over the near shore waters of Lake Michigan. The combination of the unstable atmosphere and these boundaries caused five "observed" waterspouts just offshore of downtown Milwaukee, and two "observed" waterspouts just offshore of Kenosha. The waterspouts remained offshore and did not cause any property damage. Most of the waterspouts were filmed by WISN-TV.



Left image shows approximate paths of five waterspouts based on numerous pictures and video submitted by severe weather spotters, U.S. Coast Guard, Milwaukee WISN TV-12, and the general public in the Milwaukee Harbor area. Image on right was taken by Elaine Litzau at about 10:10 A.M. CDT, who was at the Discovery World Museum on the Milwaukee lakeshore. Her image is most likely of waterspout #3 which occurred from 10:02 to 10:23 A.M. CDT.

WISCONSIN, Southeast

MARQUETTE COUNTY --- 5.0 W WESTFIELD [43.88, -89.58], GERMANIA [43.88, -89.25]

09/02/11 07:35 CST 09/02/11 08:00 CST 75K 0 Thunderstorm Wind (MG 58 kt) Source: Emergency Manager

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Westfield to Germania. The dama received minor damage to roofs,	g wind gusts produced damage across Marqu aging winds downed power lines and trees, in siding and gutters due to tree debris striking t 'estfield recorded a 67 mph (58 knot) wind gus	cluding a tree that he homes. At the p	crushed a parked	car on CTH B in Montello. Five homes
FOND DU LAC COUNTY 1.5 N	NW FOND DU LAC [43.80, -88.47]			
	09/02/11 08:40 CST		0	Thunderstorm Wind (EG 50 kt)
	09/02/11 08:40 CST		0	Source: Emergency Manager
Severe thunderstorms with strong	g wind gusts produced damage across central	l Fond Du Lac Cou	nty. The damaging	g winds downed power lines and trees,
knocking out power to businesse Forcing from a strengthening lo by lift from the right entrance re	s and homes on the west side of the city of Fo ow-level jet impinging on a surface warm fro egion of an upper level jet. A very warm, moi ne development of severe thunderstorms ov	ond Du Lac. nt as it slowly lifte ist and unstable ai	d north through t r mass to the sou	he state, was enhanced th of the front provided
knocking out power to businesse Forcing from a strengthening lo by lift from the right entrance re the necessary ingredients for the Wisconsin the morning of Septe	s and homes on the west side of the city of Fo ow-level jet impinging on a surface warm fro egion of an upper level jet. A very warm, moi ne development of severe thunderstorms ov	ond Du Lac. nt as it slowly lifte ist and unstable ai er northern sectio	d north through t r mass to the sou	he state, was enhanced th of the front provided
knocking out power to businesse Forcing from a strengthening lo by lift from the right entrance re the necessary ingredients for the Wisconsin the morning of Septe	s and homes on the west side of the city of Fo ow-level jet impinging on a surface warm fro egion of an upper level jet. A very warm, moi ne development of severe thunderstorms ov ember 2nd.	ond Du Lac. nt as it slowly lifte ist and unstable ai er northern sectio	d north through t r mass to the sou ns of South Centr	he state, was enhanced ith of the front provided ral and Southeast
knocking out power to businesse Forcing from a strengthening lo by lift from the right entrance re the necessary ingredients for th Wisconsin the morning of Septe IOWA COUNTY 2.5 S LINDEN The lowa County Emergency ma south of Linden to south-southwe	s and homes on the west side of the city of Fo ow-level jet impinging on a surface warm fro egion of an upper level jet. A very warm, moi ne development of severe thunderstorms ov ember 2nd. I [42.88, -90.27], 4.0 SSW DODGEVILLE [42.9 09/03/11 01:40 CST	ond Du Lac. Int as it slowly lifter ist and unstable air er northern section [2, -90.16]	d north through t r mass to the sou ns of South Centr 50K 0	he state, was enhanced ith of the front provided ral and Southeast Thunderstorm Wind (EG 70 kt) Source: Emergency Manager its (80 mph) in a 5-mile wide swath from
knocking out power to businesse Forcing from a strengthening loby lift from the right entrance rethe necessary ingredients for the Wisconsin the morning of Septe IOWA COUNTY 2.5 S LINDEN The lowa County Emergency masouth of Linden to south-southwe Numerous trees and power lines	s and homes on the west side of the city of Formula Service of the city of Formula Service of Servi	ond Du Lac. Int as it slowly lifter ist and unstable al er northern section 12, -90.16] Interm wind gusts ester roof off of a cattle	d north through t r mass to the sou ns of South Centr 50K 0	he state, was enhanced ith of the front provided ral and Southeast Thunderstorm Wind (EG 70 kt) Source: Emergency Manager its (80 mph) in a 5-mile wide swath from
knocking out power to businesse Forcing from a strengthening loby lift from the right entrance rethe necessary ingredients for the Wisconsin the morning of Septe IOWA COUNTY 2.5 S LINDEN The lowa County Emergency masouth of Linden to south-southwe Numerous trees and power lines	s and homes on the west side of the city of Forew-level jet impinging on a surface warm from a sign of an upper level jet. A very warm, more development of severe thunderstorms over the end of severe thunderstorms over the surface of the severe thunderstorms over the severe thunderstorm of the severe thunderstorm of the severe the severe the severe the severe the severe that the severe	ond Du Lac. Int as it slowly lifter ist and unstable al er northern section 12, -90.16] Interm wind gusts ester roof off of a cattle	d north through t r mass to the sou ns of South Centr 50K 0	he state, was enhanced ith of the front provided ral and Southeast Thunderstorm Wind (EG 70 kt) Source: Emergency Manager its (80 mph) in a 5-mile wide swath from

DANE COUNTY --- 5.0 SW BLUE MOUNDS [42.97, -89.90], 2.0 E MC FARLAND [43.02, -89.24]

of Hollandale. Numerous trees and power lines were knocked down by the powerful winds.

09/03/11 02:22 CST 15K Thunderstorm Wind (EG 65 kt) 09/03/11 02:57 CST 0 Source: Law Enforcement

Law enforcement officials reported damage from severe thunderstorm wind gusts estimated at 65 knots (75 mph) in an 8-mile wide swath from southwest of Blue Mounds to east of McFarland. The damaging winds downed numerous trees and power lines, with 1000 customers left without power in the Madison area.

DANE COUNTY OREGON [42.93, -89.38], 5.0 NE ALBION [42.93, -89.00]		
09/03/11 02:45 CST	15K	Thunderstorm Wind (EG 65 kt)
09/03/11 03:30 CST	0	Source: Trained Spotter

A trained spotter reported numerous trees and power lines downed along a path from Oregon to northeast of Albion from damaging severe thunderstorm wind gusts estimated at 65 knots (75 mph). The winds tore some siding off a home in Oregon. Heavy rain caused ponding of water on area roadways, with water over the curb on some streets in Oregon.

DANE COUNTY 2.0 E PAOLI [42.92, -89.48]			
	09/03/11 02:46 CST	0	Hail (0.75 in)
	09/03/11 02:46 CST	0	Source: Trained Spotter

A trained spotter reported hail near Paoli that was measured 3/4 of an inch in diameter that fell from strong to severe thunderstorms moving through Dane County during the early morning hours of of September 3rd.

DANE COUNTY COTTAGE GROVE [43.08, -89.20]		
09/03/11 03:10 CST	0	Thunderstorm Wind (EG 50 kt)
09/03/11 03:10 CST	0	Source: Trained Spotter

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A trained spotter reported large tree branches downed from severe thunderstorm wind gusts estimated at 50 knots (58 mph).

JEFFERSON COUNTY --- LAKE MILLS [43.08, -88.90]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
	09/03/11 03:10 CST		0	Thunderstorm Wind (EG 65 kt)	
	09/03/11 03:20 CST		0	Source: Trained Spotter	
A trained spotter reported large tree brand hunderstorm wind gusts estimated at 65	- · · · · ·	oool blown into a ne	eighbor's yard and	lawn furniture tossed from severe	
DANE COUNTY 2.0 NNW MARSHALL	[43.20, -89.07]				
	09/03/11 03:11 CST		0	Thunderstorm Wind (EG 56 kt)	
	09/03/11 03:11 CST		0	Source: Law Enforcement	
_aw enforcement officers reported trees d	downed from severe thunderstorm wi	nd gusts estimated	at 56 knots (65 mp	ph).	
DODGE COUNTY 2.0 N PORTLAND [4		25, -88.52]			
	09/03/11 03:20 CST		15K	Thunderstorm Wind (EG 65 kt)	
	09/03/11 03:45 CST		0	Source: Law Enforcement	
Law enforcement officials reported damage Portland to north of Ashippun. The damage	•		i knots (75 mph) in	a 4-mile wide swath from north of	
JEFFERSON COUNTY WATERLOO [4		-88.54]	.=		
	09/03/11 03:20 CST		15K	Thunderstorm Wind (EG 65 kt)	
	09/03/11 03:40 CST		0	Source: Law Enforcement	
Law enforcement officials reported damag northeast of Ixonia. The damaging winds			s knots (75 mpn) in	a 3-mile wide swath from waterloo to	
MALIKESHA COLINTY MONTEREY (4)	3 17 _88 501				
WAUKESHA COUNTY MONTEREY [4	3.17, -88.50] 09/03/11 03:40 CST		2K	Thunderstorm Wind (EG 56 kt)	
WAUKESHA COUNTY MONTEREY [4:	· · · · · · · · · · · · · · · · · ·		2K 0	Thunderstorm Wind (EG 56 kt) Source: Law Enforcement	
Law enforcement officials reported damaç	09/03/11 03:40 CST 09/03/11 03:40 CST ge from severe thunderstorm wind gu	usts estimated at 56	0	Source: Law Enforcement	
Law enforcement officials reported damagilines and numerous branches in the town:	09/03/11 03:40 CST 09/03/11 03:40 CST ge from severe thunderstorm wind gu ship of Oconomowoc.	usts estimated at 56	0 knots (65 mph) th	Source: Law Enforcement at downed two trees and two power	
Law enforcement officials reported damagines and numerous branches in the town:	09/03/11 03:40 CST 09/03/11 03:40 CST ge from severe thunderstorm wind gu ship of Oconomowoc. -88.45]	usts estimated at 56	0 6 knots (65 mph) th 0	Source: Law Enforcement at downed two trees and two power Thunderstorm Wind (EG 56 kt)	
Law enforcement officials reported damag lines and numerous branches in the town:	09/03/11 03:40 CST 09/03/11 03:40 CST ge from severe thunderstorm wind gu ship of Oconomowoc.	usts estimated at 56	0 knots (65 mph) th	Source: Law Enforcement at downed two trees and two power	
Law enforcement officials reported damagines and numerous branches in the towns DODGE COUNTY ALDERLEY [43.22,	09/03/11 03:40 CST 09/03/11 03:40 CST ge from severe thunderstorm wind gu ship of Oconomowoc. -88.45] 09/03/11 03:55 CST 09/03/11 03:55 CST		0 6 knots (65 mph) th 0 0	Source: Law Enforcement at downed two trees and two power Thunderstorm Wind (EG 56 kt) Source: Law Enforcement	
Law enforcement officials reported damagines and numerous branches in the towns DODGE COUNTY ALDERLEY [43.22, 12] Law enforcement officials reported trees of	09/03/11 03:40 CST 09/03/11 03:40 CST ge from severe thunderstorm wind guship of Oconomowoc. -88.45] 09/03/11 03:55 CST 09/03/11 03:55 CST downed from damaging severe thunces	lerstorm wind gusts	0 6 knots (65 mph) th 0 0	Source: Law Enforcement at downed two trees and two power Thunderstorm Wind (EG 56 kt) Source: Law Enforcement nots (65 mph).	
Law enforcement officials reported damagines and numerous branches in the towns DODGE COUNTY ALDERLEY [43.22, 12] Law enforcement officials reported trees of	09/03/11 03:40 CST 09/03/11 03:40 CST ge from severe thunderstorm wind guship of Oconomowoc. -88.45] 09/03/11 03:55 CST 09/03/11 03:55 CST downed from damaging severe thunce FORD [43.25, -88.38], 5.0 SE JACKS 09/03/11 04:00 CST	lerstorm wind gusts	0 6 knots (65 mph) th 0 0	Source: Law Enforcement at downed two trees and two power Thunderstorm Wind (EG 56 kt) Source: Law Enforcement	
Law enforcement officials reported damagines and numerous branches in the towns DODGE COUNTY ALDERLEY [43.22, 12] Law enforcement officials reported trees of	09/03/11 03:40 CST 09/03/11 03:40 CST ge from severe thunderstorm wind guship of Oconomowoc. -88.45] 09/03/11 03:55 CST 09/03/11 03:55 CST downed from damaging severe thunces	lerstorm wind gusts	0 6 knots (65 mph) th 0 0 0 estimated at 56 km	Source: Law Enforcement at downed two trees and two power Thunderstorm Wind (EG 56 kt) Source: Law Enforcement nots (65 mph).	
Law enforcement officials reported damagines and numerous branches in the towns DODGE COUNTY ALDERLEY [43.22, Law enforcement officials reported trees of the county 5.0 S HARTE A trained spotter reported numerous trees severe thunderstorm wind gusts estimated	09/03/11 03:40 CST 09/03/11 03:40 CST ge from severe thunderstorm wind guship of Oconomowoc. -88.45] 09/03/11 03:55 CST 09/03/11 03:55 CST downed from damaging severe thunce ORD [43.25, -88.38], 5.0 SE JACKS 09/03/11 04:00 CST 09/03/11 04:20 CST s and power lines downed in a 6-mile d at 60 knots (69 mph). The roof was	lerstorm wind gusts ON [43.27, -88.10] e wide swath from se blown off a silo, tre	0 0 0 0 0 estimated at 56 km 3Km 0 outh of Hartford to bees were downed at	Source: Law Enforcement at downed two trees and two power Thunderstorm Wind (EG 56 kt) Source: Law Enforcement nots (65 mph). Thunderstorm Wind (EG 60 kt) Source: Trained Spotter southeast of Jackson from damaging	
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A residual surface boundary that extended from eastern lowa across northern Illinois was the focus for thunderstorm development as a moderate southwest 850 mb jet pushed it north as a warm front. Upper divergence from the right entrance region of an upper jet maxmum provided additional lift. Moderate deep layer wind shear produced sustained updrafts to form thunderstorm clusters that

damaging severe thunderstorm wind gusts estimated at 56 knots (65 mph).

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Location Date/Time Deaths & **Event Type and Details** Property &

Injuries Crop Dma

evolved into short line segments as they reached southern Wisconsin. The severe thunderstorm lines produced damaging wind gusts in a swath from lowa County along and either side of the I-94 corridor to Milwaukee and Ozaukee counties.

WAUKESHA COUNTY --- 1.6 SSW DOWNTOWN WAUKESHA [43.00, -88.23]

2K 09/25/11 11:55 CST Lightning

09/25/11 11:55 CST 0 Source: Newspaper

Lightning struck a tree outside of a home in the 100 block of west Frame Avenue in the City of Waukesha. The lightning strike also damaged the gas meter at the home and part of a gas line. Some homes in the area were evacuated briefly as a precaution. The lightning strike sent some pieces of wood from the tree 60 yards away from the point of impact, damaging some nearby properties. Fire officials had the gas line problem resolved by 4:30 pm CDT (3:30 pm

GREEN COUNTY --- 4.0 NW MONTICELLO [42.77, -89.64]

09/25/11 13:25 CST 0 **Funnel Cloud**

09/25/11 13:25 CST 0 Source: Trained Spotter

A trained spotter reported a funnel cloud northwest of Monticello in north-central Green County.

LAFAYETTE COUNTY --- 2.0 SE SOUTH WAYNE [42.55, -89.85]

09/25/11 13:55 CST 0 **Funnel Cloud**

09/25/11 13:55 CST Source: Law Enforcement

Law enforcement officials reported a funnel cloud southeast of the town of South Wayne in far southeast Lafayette County.

DANE COUNTY --- 1.0 W VERONA [42.98, -89.55]

0 09/25/11 16:10 CST Hail (0.75 in)

0 09/25/11 16:10 CST Source: Trained Spotter

A trained spotter reported hail, 3/4 of an inch in diameter, that fell 1 mile west of the town of Verona in Dane County.

A cut-off upper level low pressure system, situated just south of the Wisconsin/Illinois border, produced a deepening surface low that wrapped north and then west around the upper low. Deep moisture...strong layer Q-vector convergence and strong 850-700 mb warm air advection pushed across southern Wisconsin ahead of, and along with, the surface low during the afternoon hours of September 25th. Thunderstorms were embedded within the broad shield of rain showers that developed over South-Central and Southeast Wisconsin. These storms produced small hail, and a few funnel cloud reports, mainly over southwest portions of South-Central Wisconsin.

RACINE COUNTY --- 1.0 NW IVES GROVE [42.74, -87.98], 1.3 ENE IVES GROVE [42.74, -87.95], 1.2 ESE IVES GROVE [42.72, -87.95], 1.0 SW IVES GROVE [42.72, -87.98]

09/26/11 05:00 CST 6K

Flood (due to Heavy Rain) 09/26/11 05:00 CST 1K Source: Newspaper

Heavy rains resulted in flash flooding of a construction zone on the west frontage road of I-94 between STH 20 and CTH C. A 76-year-old Dousman man died when his car stalled in the flood waters after driving into a flooded ditch in the construction zone. The preliminary cause of death was from a heart attack and hypothermia, suffered when the victim apparently tried to leave the marooned car and walk for help. His body was found in the flood water about 100 yards from his car.

Direct Fatalities: M76EQ

Showers and thunderstorms associated with a cut-off upper low that stalled over northern Illinois and southern Wisconsin produced up to 3 inches of rain across parts of southern Wisconsin over a 48-hour period ending the morning of September 26th...with between 1.5 and 2 inches falling in the last 24 hours of that two-day period. The heavy rains flooded low-lying areas and ditches across the region, with standing water 3 to 4 feet deep in some locations. A 76-year-old man died of a heart attack and hypothermia after his car became stalled after he drove into a flooded construction zone in Racine County.

(WI-Z056) SAUK, (WI-Z062) IOWA, (WI-Z067) LAFAYETTE

09/29/11 13:00 CST 6K Strong Wind (MAX 47 kt)

09/29/11 22:00 CST 0

Strong and gusty northwest winds developed over South-Central Wisconsin behind a cold front trailing from rapidly strengthening low pressure that tracked across northern Wisconsin into northern Lower Michigan on Thursday, September 29th. The resulting tight pressure gradient over the state produced 850 mb winds of 45 knots (52 mph) and 925 mb winds of 35 to 40 knots (45 and 55 mph). Surface winds gusted between 45 mph and 54 mph (39 to 47 knots), driven by 3-hourly pressure rises on the order of 4 millibars. The strong winds toppled trees and downed power lines at scattered locations across South-Central Wisconsin.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(WI-Z046) MARQUETTE, (WI-Z	Z047) GREEN LAKE, (WI-Z051) FOND DU LAC,	(WI-Z057) COLUN	IBIA, (WI-Z058) DC	DDGE, (WI-Z059) WASHINGTON,
(WI-Z063) DANE, (WI-Z064) JE	EFFERSON, (WI-Z065) WAUKESHA, (WI-Z069)	ROCK, (WI-Z070)	WALWORTH	
	09/29/11 13:00 CST		21K	Strong Wind (MAX 48 kt)
	09/30/11 00:00 CST		0	
WASHINGTON COUNTY H.	ARTFORD [43.32, -88.38]			
	09/29/11 14:15 CST		0	Hail (0.75 in)
	09/29/11 14:15 CST		0	Source: Trained Spotter
Scattered thunderstorms that a	accompanied a cold front across southern Wisco	nsin produced hai	showers over port	tions of Southeast Wisconsin. WHile
most of teh hail was 1/4 to 1/2	inch in diameter, a trained spotter in Hartford, in	western Washing	ton County, reporte	ed 3/4 inch hail stones.
	winds developed over South-Central and South			
	hat tracked across northern Wisconsin into no		•	
	ent over the state produced 850 mb winds of	` ' '		•
55 mph). Surface winds guste	ed between 45 mph and 55 mph (39 to 48 knots	s), driven by 3-hou	ırly pressure rises	s on the order of 4

(WI-Z052) SHEBOYGAN, (WI-Z060) OZAUKEE, (WI-Z066) MILWAUKEE, (WI-Z071) RACINE, (WI-Z072) KENOSHA

Wisconsin.

millibars. The strong winds toppled trees and downed power lines at scattered locations across South-Central and Southeast

09/29/11 14:00 CST 10K Strong Wind (MAX 46 kt) 09/30/11 02:45 CST 0

Strong and gusty northwest winds developed over Southeast Wisconsin behind a cold front trailing from rapidly strengthening low pressure that tracked across northern Wisconsin into northern Lower Michigan on Thursday, September 29th. The resulting tight pressure gradient over the state produced 850 mb winds of 45 knots (52 mph) and 925 mb winds of 35 to 40 knots (45 and 55 mph). Surface winds gusted between 45 mph and 53 mph (39 to 46 knots), driven by 3-hourly pressure rises on the order of 4 millibars. The strong winds, which continued into the early morning hours of September 30th, toppled trees and downed power lines across Southeast Wisconsin. The power outages indirectly led to the death of a 49-year-old Milwaukee man on a ventilator.

(WI-2068) GREEN			
	09/29/11 15:00 CST	4K	High Wind (MAX 59 kt)
	09/29/11 17:00 CST	0	

Strong and gusty northwest winds developed over South-Central Wisconsin behind a cold front trailing from rapidly strengthening low pressure that tracked across northern Wisconsin into northern Lower Michigan on Thursday, September 29th. The resulting tight pressure gradient over the state produced 850 mb winds of 45 knots (52 mph)and 925 mb winds of 35 to 40 knots (40 to 46 mph). Surface winds gusted between 50 mph and 68 mph in Green County, driven by 3-hourly pressure rises on the order of 4 millibars. The strong winds toppled trees and downed power lines across South-Central Wisconsin. The strong winds affected all of Wisconsin, with all of the state parks on the Door Peninsula closed for the entire following weekend to allow crews time to clear debris and restore power.

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Deaths &

Property &

Event Type and Details

Date/Time

Location

ı	njuries Crop Dm	g
AVE MICHICAN		
AKE MICHIGAN		
SHEBOYGAN TO PT WASHINGTON WI COUNTY 3.2 NE KOHLER/ANDRAE ST	PRK [43.70, -87.69], 2.6 N	IE KOHLER/ANDRAE ST PRK [43.69, -87.69]
10/19/11 08:05 CST	0	Waterspout
10/19/11 08:15 CST	0	Source: Public
SHEBOYGAN TO PT WASHINGTON WI COUNTY 3.1 NE KOHLER/ANDRAE ST	PRK [43.70, -87.69], 2.8 N	IE KOHLER/ANDRAE ST PRK [43.70, -87.69]
10/19/11 08:12 CST	0	Waterspout
10/19/11 08:20 CST	0	Source: Public
SHEBOYGAN TO PT WASHINGTON WI COUNTY 3.1 NE KOHLER/ANDRAE ST	PRK [43.70 -87.69] 2.8 N	IF KOHI FR/ANDRAF ST PRK (43 70 -87 69)
10/19/11 08:14 CST	0	Waterspout
10/19/11 08:20 CST	0	Source: Public
Instable conditions in the low levels of the atmosphere over Lake Michigan alon vith a developing Low Pressure system in the Tennessee and Ohio Valleys prod of Lake Michigan during the morning on October 19th. Based on eyewitness rep netween 9 and 930 am CDT over the near shore waters of Lake Michigan, just eas	uced several waterspouts orts it is estimated that the	s over the near shore waters hree waterspouts were visible
waterspouts were just north of an area of showers. Members of the public viewed south-southeast from downtown Sheboygan. The waterspouts dissipated off-sho	•	ortheast from Oostburg and
WIND PT LT WI TO WINTHROP HBR IL COUNTY 1.6 NE RACINE [42.74, -87.78]		
10/19/11 13:23 CST	0	Marine High Wind (MG 50 kt)
10/19/11 13:23 CST	0	Source: Public
Measured gust at Racine Yacht Club.		
WIND PT LT WI TO WINTHROP HBR IL COUNTY 1.2 ENE KENOSHA [42.59, -87		
10/19/11 15:10 CST	0	Marine High Wind (MG 47 kt)
10/19/11 15:10 CST	0	Source: C-MAN Station
Measured at KNSW3 lake shore observation site. Sustained winds of 38 knots at tin	ne of gust.	
NORTH PT LT TO WIND PT WI COUNTY 3.5 SE NORTH POINT LTHOUSE [43.0]	 5, -87.88]	
10/19/11 16:00 CST	0.10K	Marine Strong Wind (MG 42 kt)
10/19/11 16:00 CST	0	Source: C-MAN Station
Measured at MLWW3 marine observation platform.		
SHEBOYGAN TO PT WASHINGTON WI COUNTY 1.4 E SHEBOYGAN [43.75, -8]		
10/19/11 16:00 CST	0.10K	Marine Strong Wind (MG 45 kt)
10/19/11 16:00 CST	0	Source: C-MAN Station
Measured at SGNW3 marine observation platform. Prevailing winds of 41 knots at ti	me of wind gust.	
SHEBOYGAN TO PT WASHINGTON WI COUNTY 1.4 E SHEBOYGAN [43.75, -8]		
10/19/11 18:00 CST	0.10K	Marine Strong Wind (MG 46 kt)
10/19/11 18:00 CST	0	Source: C-MAN Station
Measured at SGNW3 marine observation platform. Prevailing winds of 37 knots at ti	ime of gust.	
WIND PT LT WI TO WINTHROP HBR IL COUNTY 1.6 NE RACINE [42.74, -87.78]		
10/19/11 18:00 CST	0	Marine High Wind (MG 63 kt)
10/19/11 18:00 CST	0	Source: Public
Measured at Racine Yacht Club.		
WIND PT LT WI TO WINTHROP HBR IL COUNTY 1.2 ENE KENOSHA [42.59, -87		
10/19/11 18:20 CST	0	Marine High Wind (MG 53 kt)
10/19/11 18:20 CST	0	Source: C-MAN Station

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
Measured at KNSW3 marine obser	vation platform. Prevailing wind 43 knots at	t time of wind gust.			
NORTH PT LT TO WIND PT WI CO	OUNTY 3.5 SE NORTH POINT LTHOUSE	[43.05, -87.88]			
	10/19/11 19:00 CST	• / •	0.30M	Marine Strong Wind (MG 46 kt)	
	10/19/11 19:00 CST	1	0	Source: C-MAN Station	
Measured at MLWW3 marine obse	rvation platform.				
WIND PT LT WI TO WINTHROP H	BR IL COUNTY 3.2 E WIND POINT [42.78	3, -87.77]			
	10/19/11 21:00 CST		0	Marine High Wind (EG 50 kt)	
	10/19/11 21:00 CST		0	Source: Public	
Tree damage at Shoop Park Golf (Couse in Wind Point. Wind gust speed and t	time estimated.			
WIND PT LT WI TO WINTHROP H	BR IL COUNTY 0.7 NNE RACINE [42.73,	-87.80]			
	10/19/11 23:15 CST		0.10K	Marine Strong Wind (MG 40 kt)	
	10/19/11 23:15 CST		0	Source: Mesonet	
Measured at 21st Century Prep Sc	hool.				

0.10K

0

Measured at Sheboygan North High School.

Rapidly developing low pressure moved across western Ohio and southeast Lower Michigan during the overnight period of October 19th and morning of October 20th. An associated strong pressure gradient and lingering unstable conditions over Lake Michigan allowed strong gusty north to northeast winds to mix down to the lake surface. The lake surface temperature at this time was estimated to be in the 54 to 58 degree range. Wind gusts reached 50 to 70 mph along the lake shore. The strong winds caused high waves of 12 to 16 feet. The strong winds and high waves caused extensive damage to boats in the South Shore Yacht Club, mainly due to an eroding and failing breakwall protecting the southern part of Milwaukee Harbor. Three boats were totally destroyed at the yacht club. Four others were washed ashore and were able to be salvaged. Two of the destroyed boats were sunk. One person at the Club, while trying to secure a boat with a rope line, was tossed about on the boat due to wave action and injured (directly-related).

10/19/11 23:20 CST

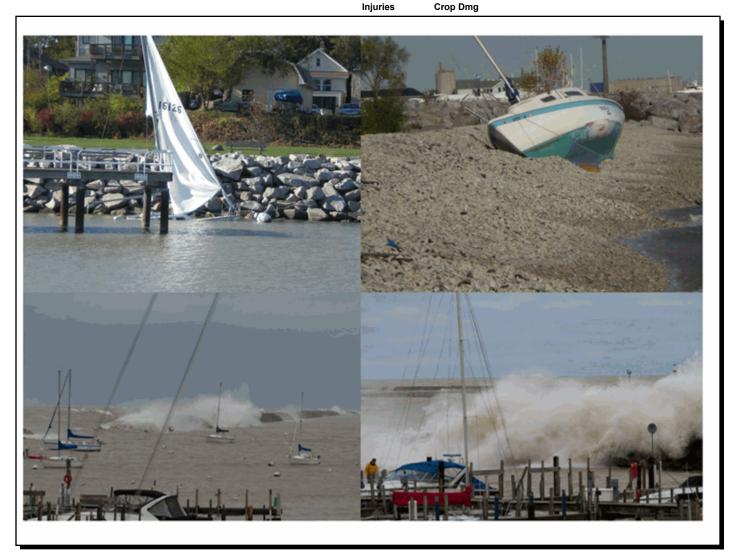
10/19/11 23:20 CST

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Marine Strong Wind (MG 41 kt)

Source: Mesonet

Location Date/Time Deaths & Property & Event Type and Details



Here are several images showing the high waves crashing on the breakwall located in the southern end of Milwaukee Harbor, just east of the South Shore Yacht Club. Also pictured are several of the boats that sustained damage from the high waves. Photographs taken by Chris Gribble, a member of the South Shore Yacht Club.

WIND POINT WI TO WINTHROP HARBOR IL 5NM OFFSHORE TO MID LAKE COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]

10/23/11 21:00 CST 0 Marine Thunderstorm Wind (MG 40 kt)

10/23/11 21:10 CST 0 Source: C-MAN Station

Wind gusts of 39 to 40 knots lasted 10 minutes.

A line of strong thunderstorms caused by a weak frontal boundary affected the near shore waters of Lake Michigan south of North Point Lighthouse to the Illinois border during the evening.

WISCONSIN, Southeast

(WI-Z052) SHEBOYGAN, (WI-Z060) OZAUKEE

10/19/11 16:00 CST 4K Strong Wind (MAX 46 kt)

10/20/11 08:30 CST 0

Rapidly developing low pressure moved across western Ohio and southeast Lower Michigan during the overnight period of October 19th and morning of October 20th. An associated strong pressure gradient produced strong gusty north to northeast winds over Sheboygan and Ozaukee Counties. Wind gusts reached 40 to 53 mph near the Lake Michigan shore. The persistent strong winds downed weak trees and tree limbs which then snapped power-lines, causing scattered power outages.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
(WI-Z059) WASHINGTON, (WI-Z	2065) WAUKESHA, (WI-Z070) WALWORTH				
	10/19/11 16:00 CST		6K	Strong Wind (MAX 39 kt)	
	10/19/11 19:53 CST		0		
19th and morning of October 2	re moved across western Ohio and southea Oth. An associated strong pressure gradien alworth Counties. Sustained winds reached	t produced strong	gusty north to	northeast winds over	
19th and morning of October 2 Washington, Waukesha and W strong winds downed weak tre	0th. An associated strong pressure gradien	t produced strong 30 mph, with esti	gusty north to i	northeast winds over to 45 mph. The persistent	
19th and morning of October 2 Washington, Waukesha and W strong winds downed weak tre	0th. An associated strong pressure gradien alworth Counties. Sustained winds reached es and tree limbs which then snapped powe	t produced strong 30 mph, with esti	gusty north to i	northeast winds over to 45 mph. The persistent	

Rapidly developing low pressure moved across western Ohio and southeast Lower Michigan during the overnight period of October 19th and morning of October 20th. An associated strong pressure gradient and unstable conditions over the relatively warmer waters of Lake Michigan allowed strong gusty north to northeast winds to mix down to the lake surface and push inland from Milwaukee south to the Illinois border. Wind gusts reached 50 to 70 mph along the lake shore...and up to 51 mph inland. In downtown Milwaukee, wind and debris broke a few windows in the U.S. Bank tower. Elsewhere...some weak trees were uprooted and there were many reports of broken tree branches. This tree debris damaged at least a couple homes and resulted in scattered power outages as power-lines came down. The strong winds and high waves caused extensive damage to several boats and docks at the South Shore Yacht Club in Milwaukee. Refer to the separate Marine Strong Wind event within Storm Data for details.

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Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg

LAKE MICHIGAN

WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]

11/02/11 20:20 CST 0.10K Marine Strong Wind (MG 41 kt)

11/03/11 11:40 CST 0 Source: C-MAN Station

Peak wind gust of 41 knots at 650 am CDT. Nearly continuous period of wind gusts 34 to 41 knots from 3 am CDT to 1240 pm CDT. Highest prevailing winds 34 knots at 720 am CDT. Wind gusts began reaching 34 knots or greater at 920 pm CDT on November 2nd.

NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]

11/03/11 07:00 CST 0.10K Marine Strong Wind (MG 35 kt)

11/03/11 09:00 CST 0 Source: C-MAN Station

Frequent gusts 34 - 35 knots from 800 am CDT to 10 am CDT.

Strengthening low pressure over the central Mississippi Valley region resulted in a tightening pressure gradient over southern Lake Michigan during the afternoon and evening of Wednesday, November 2nd. In addition, unstable conditions over Lake Michigan contributed to strong gusty winds mixing down to the lake surface Wednesday night into Thursday morning, November 3rd. The strongest winds were south of Wind Point, where continuous gusts reached gale force for a nine hour period from 3 am CDT to 1240 pm CDT Thursday, November 3rd.

WISCONSIN, Southeast

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z067) LAFAYETTE

11/09/11 07:00 CST 0 Winter Weather

11/09/11 15:00 CST 0

Surface low pressure, tracking from northern Missouri across extreme northeast Illinois to northern Lower Michigan, was accompanied by a strong upper-level disturbance moving across the western Great Lakes region. These features combined with a favorable thermal profile to produce 3 to 6 inches of heavy, wet snow across northwest portions of South Central Wisconsin during the morning and early afternoon hours of November 9th. Power lines and tree limbs snapped under the weight of the heavy snow that had collected on them. Snowfall totals for the event included La Valle with 7.2 inches; Reedsburg with 6.4 inches; Baraboo with 6 inches; and Mineral Point with 5.5 inches of snow. The 7-inch amount was isolated and therefore prevented this event from being entered as a winter storm. In addition to the snow, the tight pressure gradient around the low produced sustained northeast to north winds of 15 to 25 mph, with gusts of 35 to 45 mph, reducing visibilities and adding to travel difficulties.

(WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

11/13/11 13:30 CST 6K Strong Wind (MAX 43 kt)

11/13/11 17:00 CST 0

A strong low-level jet of 50 to 60 knots, ahead of a short wave trough approaching from the Central Plains, combined with steep lapse rates from the surface up to 800 mb to mix down strong wind gusts over Southeast Wisconsin during the afternoon of November 13th. Sustained winds of 30 mph, with gusts between 45 and 55 mph were measured over the southeast corner of the state. The highest reported gust was 54 mph (43 knots) in Kenosha. The strong winds snapped small tree branches and knocked down power lines.

(WI-Z052) SHEBOYGAN, (WI-Z060) OZAUKEE, (WI-Z066) MILWAUKEE, (WI-Z071) RACINE, (WI-Z072) KENOSHA

11/29/11 06:00 CST 5K Strong Wind (MAX 49 kt)

11/29/11 18:00 CST 0

Strong low pressure tracked from the Ohio River Valley into the eastern Great Lakes with a tight pressure gradient developing over far eastern Wisconsin on November 29th. Strong north to northeast winds flowing over the low-friction surface of Lake Michigan allowed sustained winds to reach 30 to 35 mph, with wind gusts between 45 and 55 mph, to affect near shore locations from Sheboygan to Kenosha. The strongest wind gust was reported at the lake shore observation site near the Kenosha Harbor with a 55 mph (48 knot) wind gust, with a 53 mph (46 knot) gust at the John H. Batten Airport in Racine.

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Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg

WISCONSIN, Southeast

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

12/29/11 05:00 CST 0 Winter Weather

12/29/11 09:00 CST 0

A band of light precipitation...a mix of light rain and snow...driven by warm air advection and mid-level frontogenesis ahead of a short wave trough moved across southern Wisconsin during the early morning hours of December 29th. With surface temperatures below freezing and the loss of ice crystals for snow formation as upper levels dried out...the precipitation changed over to freezing drizzle and light freezing rain over a good portion of Southeast Wisconsin and parts of South Central Wisconsin. The freezing rain and freezing drizzle coated roads, sidewalks and outdoor structures with a thin layer of ice, affecting areas mainly along and northeast of a Wisconsin Dells, Madison to Lake Geneva line. The icy conditions led to numerous vehicle accidents, with many spin-outs and a few roll-over accidents. A man was killed north of the city of Jefferson when he stopped to assist another motorist involved in an accident on the STH 26 by-pass bridge, slipped off the bridge and fell into the Rock River. A semi-trailer truck jack-knifed on westbound Interstate 94 near STH 18 in Waukesha County, blocking two of the three westbound lanes during the morning rush hour.

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